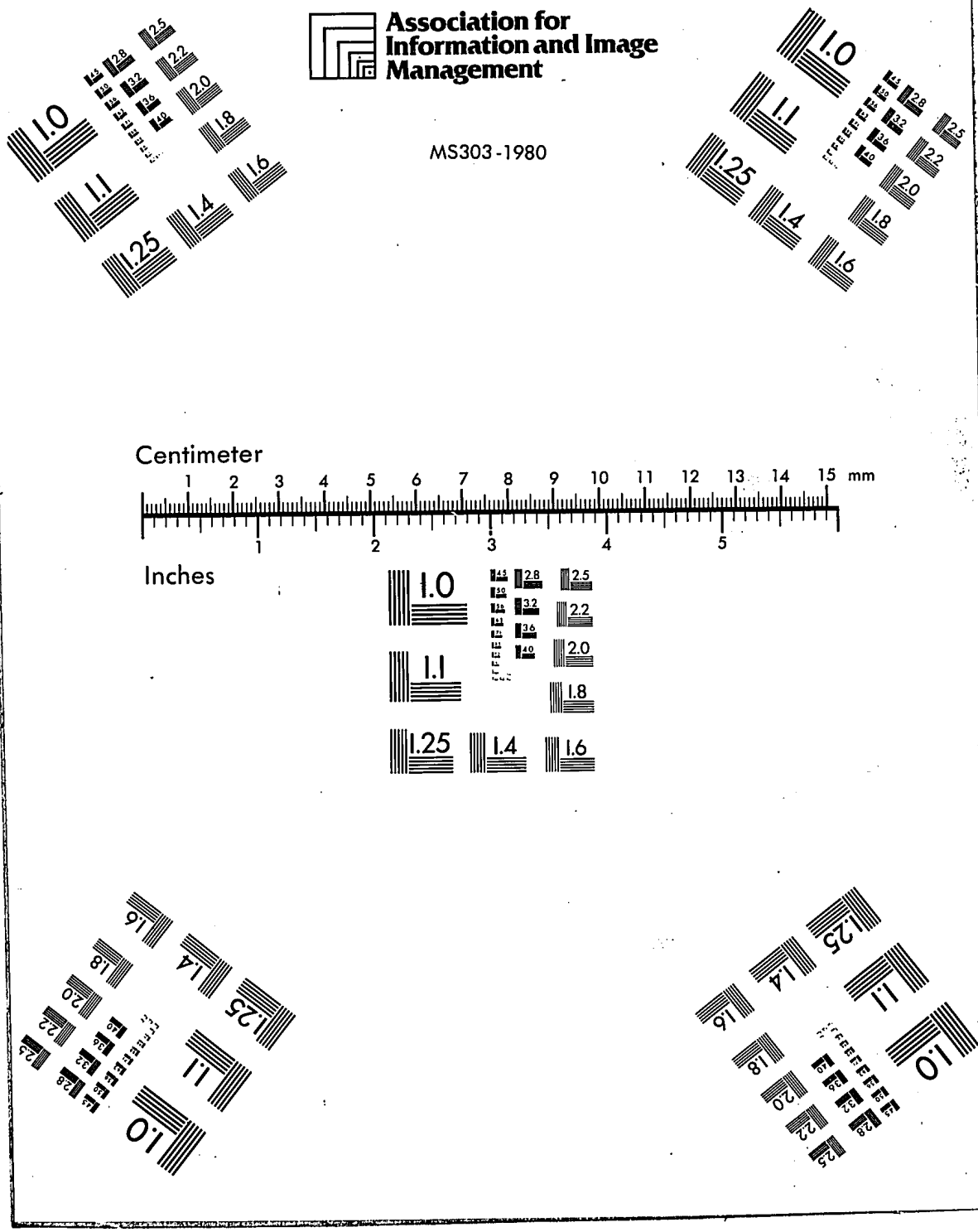
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A SELECTIVE MICROFILM EDITION

PART II
(1879–1886)

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Frederick, Maryland
1987

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18 June 1981

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A SELECTIVE MICROFILM EDITION
PART II
(1879-1886)

REEL 81

LETTERBOOK SERIES (LBK-3)

Letterbooks, LB-009 - LB-014

Letterbook, LB-009

This letterbook covers the period March 1881-January 1882. Most of the correspondence is by Edison. There is also correspondence by Samuel Insull. Most of Edison's letters are in the hand of Insull, acting as Edison's secretary. The correspondence relates primarily to electric lighting. Included are letters concerning the construction of the Holborn Viaduct central station in London, the use of batteries for electric lighting, and the development of dynamos and lamps. There are also letters pertaining to electric railway patent interferences, the periodical Science, and the Paris Electrical Exhibition of 1881. Among the recipients are Joshua F. Bailey, Charles Batchelor, the Edison Electric Lamp Company, George E. Gouraud, Edward H. Johnson, and Theodore Puskas. The front cover is marked "1881." The spine is stamped "Letters." The book contains 497 numbered pages and an index. Approximately 30 percent of the book has been filmed.

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Allegan Ind. Co. 827

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Mch 4th = 1

Navarro

Fort Monroe Va

About thirty eight thousand if things are

to be fancy,

Edison

4th March 1881

A. Mowbray
Esq
Grand Hotel
Grand Hotel
Grand Hotel

I am directed to acknowledge the receipt of your favour of 26th ult.

We shall be prepared to proceed with the business immediately after the system has been put into operation here, meant no Mr Edison will be glad to see the gentlemen you refer at any time they call at the office

Mr Edison would suggest the advisability of your obtaining the rights of lay wires under the streets of Paris

Yours truly
Edison Electric Light Co

4th March 1881

L. S. Westcalf Esq
North American Review
New York

Dear Sir

I have duly received the parcel of three "North American Reviews" for which accept my best thanks

Yours very truly

Thomas Edison

16

March 5— 0

Favored, Fort Monroe Va

All right, Cut freight duties, and
Lo or will increase columns slightly, Edison

Edison

6th March 1881

The Engineering Lab
Wilkes Barre Pa.

Referring to your favor of the
inst in behalf of Prof Puchta would say
we can furnish and erect any information
you may desire

Yours truly
Paul Snell
Edison Electric Light Co

65, 5th Ave.,

New York, Feb 23d. 1861.

Charles Cuttriss, Esq.,

[illegible]

Dear Sir:

Your very friendly and pains-taking experiments pleased me very much indeed. I am quite sure you will yet prove what we think to be possible. The thing can be done: let us do it. Is there anything else you want?

Very truly yours,

OFFICE OF THE
EDISON ELECTRIC LIGHT CO.
65 5th AVE.
NEW YORK.

7th March 1881

L. F. Loree Esq
Patent Agent
Baltimore

Dear Sir

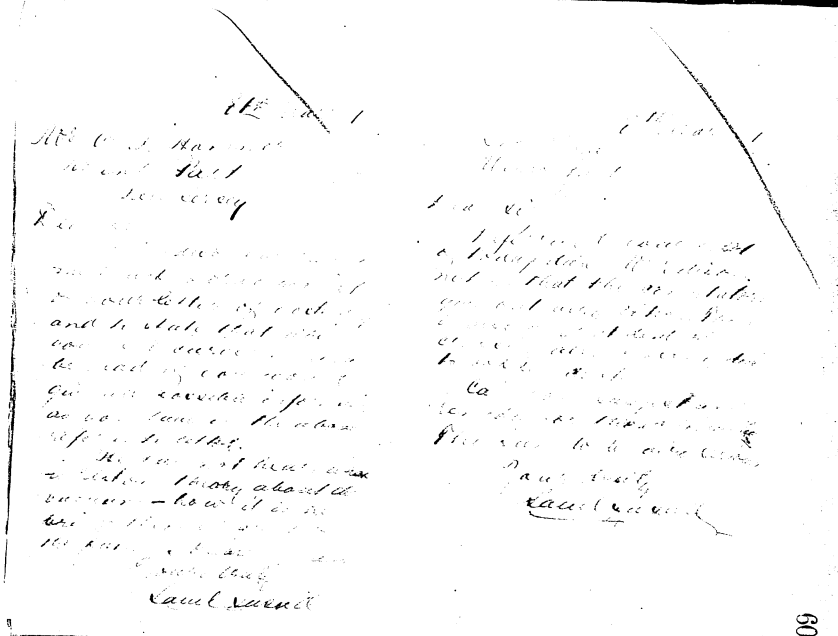
I beg to acknowledge receipt of your favor of 5th inst addressed to Mr Edison.

If State of Maryland is entirely precluded only inasmuch as negotiations can be had with parties for one town at a time

The Edison Light is perfected and as soon as we can get permission from the City Authorities we propose putting it into practical operation in the Town of Rockville Maryland.

As to terms we shall not be disposed to discuss this matter until we have the information asked for in the enclosed circular

from [illegible]



16th Chap 1

18th Mar 1

Messrs Martin Parker
Messrs Martin
Ipswich Jersey

Dear Sirs

We deliver to my house
in Suffolk and Yorkshire
the three right Chandeliers
and take them up to the
Grosvenor Gallery, New Bond
Street that Chandelier
for the Yorkshire house
down, packed & sent
carefully with
[illegible]

[illegible] that the wires
so that they will not
Chandeliers
[illegible]
[illegible]
[illegible]

Right Chandeliers got over
here. Perhaps after Easter
during them up
Everything must be
here by Monday week
Yours truly

Thos Ferguson

30th March 1

Messrs B. Bb. Leslie & Co
319 North Fourth Street
St Louis

Gentn

I have your favour of 24th inst. We do not care about entering into contract for lighting isolated buildings as we are prepared to establish a complete system on the same principles as the Gas Companies do with Gas. Your letter has however been fwd and will be considered when we are prepared to deal with that class of business

Yours truly

1st Sept 1

Mr Chas H. Nobelenburg
Davenport (Box 643)
Mich

Dear Sir

I have your letter of 28th ult. We do not think ourselves in a position to undertake the contract at present but when we are we will be glad to call upon you

The Phoenix Co will in due time be glad to receive your enquiries as to lighting machines

Yours truly

30th May 1

R. D. McDonald Esq.
Glen Falls
Newport

Dear Sir,

Referring to your favour
of 28th inst. do not perform
to use poles as we shall
use wires underground
Yours truly
Thos Edison

88

26th April 1

Benj F Clark Esq
Supt Patent Office
Washington D.C.

Dear Sir

Referring to your letter of 23rd inst we have not got any lamps which will work with such a low resistance as six cells will give but we shall be making some lamps shortly for that purpose and will send you two if you will remind us of this in about a month. We should make no charge if they are for experimental purposes

As we do not sell our notes we make no cuts of them but have only our working drawings

Yours truly

Thomas A. Edison

Hiram Pacific Junior Sculptor Florence
Have done an enclosure made exactly duplicate
~~with clay and plaster~~ model of Antonio
Pacinottis electric magnetic machine
~~now~~ in University of Pisa. Ship
express. Dead expenses through
Consul Morgano. To Pacinotti
living. Answer twenty words paid
Edison

14th May

Per Vas Paris
Engage immediately book broker Ricordi Milan
copy publication called Il nuovo Cimento
number nineteen June ~~1865~~ sixty four
containing description Pacinottis electric
motor. If not there send man Florence
Milan Turin obtain it. Ship express
with charges important Answer
Edison

16th May 1

Lemuel W Serrell Esq
140 Nassau Street
City

Dear Sir

I will you please write your correspondents in Denmark, Norway, Sweden, Russia, Austria, Spain and Canada asking if the Gramme & Siemens patent was taken out in 1870 71, 72 or later, on Dynamo Electric machines for generating electricity and what was the term the patent was taken out for, the date of filing and its expiration or if it has become invalid and expired by reason of non payment of taxes.

This is very important & should be attended to at once.

Charge expenses in this connection to Edison Electric Light Co

Yours truly
Thomas A Edison

16th May 1

Professor Bailey
Philadelphia

My Dear Bailey

I have only today learned that you called here on last Friday week to see me and I am extremely annoyed that you should have had the dreadful trouble of making a journey from Philadelphia without result

I was in most of the day about noon in the hopes of seeing you and whilst I was away from here for a short time my secretary was in and had instructions to send for me should you call. I shall endeavour to find out who is responsible for the gross negligence which caused you so much inconvenience and which has been no slight annoyance to myself.

Will you be so good as to call and know when you will be here again and I will most certainly be here to be seen by you

Very truly Yours

17th May 1

Mr Murray
Supply Department
Edison Electric Illuminating Co
104 Gooch Street
City

Sir

I find that you cannot get along with my Superintendent Mr Dean as you are continually quarrelling with him. It is therefore necessary that one of you should (and as it is necessary for me to keep Mr Dean in my service you must go the one to go. Please turn over everything to Fencel Briggen and come up here and obtain your salary.

I will do my best to find you a position elsewhere

Yours truly

17th May 1

Mr Ernest J. Duggan
Supply Department
Edison Electric Illuminating Co
104 Gochard St
City

Dear Sir I Mr Whitney will deliver everything
over to you in connection with the
Supply Department. You will please
call at Store House and come and
[illegible]

Yours truly

17th May 1

Messrs Rand & Reed
233 Broadway
N York

Gentlemen

Referring to your favour of 8th inst. enclosing specimen of asbestos I beg to state that Mr Andrew Gibb Glasgow is about the two thousand nine hundred & ninth and who has engraved asbestos which makes it appear as if it is a Conductor of Electricity

Yours truly

28th may 1

W. A. Poole Esq
Supt. Tts Auditors
Washington
D.C.

Dear Sir Referring to yours
of 26th inst, I beg to state
that we have not got
the lamps you required
ready yet.
Hope to do so about
in about a month
& will then do our best
to be able to send them.
Yours truly
Thos A Edison

28th may 1

Chas Batchelor Esq
Secy Supt.
American Institute
City

Dear Sir, Referring to yours
favored of 11th inst it is
quite impossible for us
to estimate as to lighting
the Institute as our
arrangements are only
for a general system
to supply electricity to
a meter Yours truly
Thos. A. Edison

2nd June 1

J. P. Ellacott Esq
Indn. State Industrial Exposition
Chicago

Dear Sir,

I have your favour of 28th May
You are decidedly under a wrong impression
as to my Exhibiting at your Exposition. If
you will tax your memory a little more
I think you will find that I did not
promise to do so and that I said I did not
think I would be able to do so but that
if by any possible means I could do so
I should. I am dependant upon other people
for my Dynamos and if I can get them
in time I will exhibit if not it is quite
impossible for me to do so

Yours truly

Thos. A. Edison

JUNE 28TH-1881.

N. P. BALLARD, ESQ.

P.O. BOX 86 NEW YORK CITY.

DEAR SIR:-

YOUR FAVOR OF THE 21ST INST HAD BEEN OVERLOOKED.

OWING TO EXTREME PRESSURE OF OTHER BUSINESS.

THE STATEMENT IN THE PAPERS THAT THERE WAS GOING TO BE A COMPETI-

TIVE TEST BETWEEN MR. EDISON AND MR. BRUSH IS ABSOLUTELY FALSE.

MR. EDISON DOES NOT KNOW MR. BRUSH AT ALL AND THE ARTICLE IN THE

NEWSPAPERS WAS THE FIRST INTIMATION HE RECEIVED OF THE MATTER.

YOURS TRULY.

Louis Howell

JUNE 28TH-1881.

H. D. BALTZER. ESQ.

P.O. BOX 56 NEW YORK CITY.

DEAR SIR:-

YOUR FAVOR OF THE 21ST INST HAD BEEN OVERLOOKED.

OWING TO EXTREME PRESSURE OF OTHER BUSINESS.

THE STATEMENT IN THE PAPERS THAT THERE WAS GOING TO BE A COMPETI-

TIVE TEST BETWEEN MR. EDISON AND MR. HIGGS IS ABSOLUTELY FALSE.

MR. EDISON DOES NOT KNOW MR. HIGGS AT ALL AND THE ARTICLE IN THE

NEWSPAPERS WAS THE FIRST INTIMATION HE RECEIVED OF THE MATTER.

YOURS TRULY.

Louis Sarrow
Sec'y

17th Sept 1

Senator A.D. Cowgill
Port Huron
Mich

Dear Sir,

I beg to enclose you Mr Edison's check for $100 being his donation to the Michigan Relief Fund

Mr Edison has directed me to express to you his extreme sorrow that so great a calamity should have befallen Michigan as that caused by the recent forest fires

Yours truly
Chas Edison

20th Sept

Panama Pass
Sailed eight coasting craft over
Tuesday with cargoes of Panama including
cash $5. Outgoing Shipping passed
Pedro Miguel Locks. Steamer
Cocle Pacific Balboa.

20th Sept

Rec'd Bradley
Cash Remarks

Dear Sir,

We have received
your letter re
Steam launch
Have sent
Quotation
Yours truly
Panama Canal

25th Sept 1

Colonel George L. Gouraud
6 Lombard Street
London Eng

Dear Gouraud

Yours of 10th rec'd & have I am glad you are pleased with my exhibit at Paris. It is utterly impossible for me to go over to Paris although I should much like to do so. My whole place now is new to work forward the completion of my Electric Light work. My experiments were months ago all completed and now I have perfected my arrangements at my various factories so as to meet the great demand that will be made.

I would like to know the general feeling of English Electricians on my exhibit at Paris. Why don't you send me English Papers which notice the subject I get German & French but no English papers

Yours truly
Thos. A. Edison

25th Sept 1

C/C Geo. B. Gouraud
6 Lombard Street
London Eng.

Dear Gouraud

Quintal Telephone: Le Gendre Patents on Duanometers &c

I cabled you for final papers re Quintal Telephone and received your reply stating you would probably be able to arrange matters.

I am putting a great deal of money into Electric Light (Factories) and would be glad to get a settlement of this as early as possible.

Your letter of 10th inst is receiving attention. I will reply to it at the earliest possible moment after I have got the information you require

Yours very truly
Thos A Edison

25th Sept 1

Col Geo. E. Gouraud
6 Lombard Street
London Eng

Dear Gouraud,

Electric Accumulator

Yours of 10th inst came duly to hand.

I have a patent in England on the application of the above to electric lighting. It is among the devices which I abandoned for something better.

If you set down and figure out the matter commercially you will see that on the present advanced state of the art there is nothing in it at all that would warrant one in taking up the subject. Doubtless eventually the people investing in it will find this out to their cost.

Yours very truly
Thos. A. Edison

24th Sept 1

The Acting United States Comr Genl
Paris Universal Exposition
Washington
D.C.

Dear Sir

Enclosed please find B/Lo
for 4 cases shipped to George Walker
Esq Paris for exhibition at Exposition
The B/L for 2 cases sent by
Ameriques was discovered. It should
have been sent you end of August
I wired you today for fifty
more American labels to be attached to
these packages. Please send me them
as early as possible as I propose
to keep on shipping packages for the
Exposition for several weeks to come.
Will you write me on receipt
of this what I may expect the Earliest
Yours truly

25th Sept 1

Samuel W. Lewell Esq
140 Nassau Street
City

Dear Sir

Can you tell me whether a Patent was taken out in India for my (carbon) Transmitter. Colonel Gouraud my London Representative informs me that Reuter & Jensen say they do not take it out.

Do you know if it ever was taken out and if so whom it was done through & where the Patent is existing

Yours truly

24th Sept

W. Ramsey Carty
Port Huron
Mich

Dear Sir

Referring to your favour of 22nd inst Mr Edison has directed me to say in reply that if you come on here he will give you a position at a commencing salary of eight dollars ($8) per week

Yours truly

Paul Ingalls
Sec'y

24th Sept 1

Dear Mr Lowrey

I am much obliged for yours of 22nd inst I want to look through the evidence for some information as to one of my patent cases altogether unconnected with nickel plating

Yours truly

Thos A Edison

25th Sept

Mr Francis Jehl
Edison machine works
104 Goerck St

Dear Sir

Referring to enclosed letter from Anaconia Brass & Copper Co please make test they ask for getting the wire from Supply Dept. & send me result returning enclosed at same time

Yours truly

Edison

24th Sept 1

D. K. Boulden Esq
San Francisco
Cal

Dear Sir

Referring to yours of 15th Inst. I am directed to say that he fully expects that next year he will be able to make an extended tour West when he hopes to take up the question of milling ores. Of course he is too busy with his Electric Light to give the subject that attention which it deserves

Yours truly

25th Sept 1

G. A. Cowles Esq
Anaconda Montana Copper Co
19 Cliff Street
City

Dear Sir

Referring to yours of 19th inst. Mr Edison is having the test you ask for made and upon it there I will forward to you as soon as we get it

Yours truly

29th Sept 1

Francis R. Upton Esq
Edison Lamp
Menlo Park
N. J.

Dear Sir

I understand some men were sent out from here to the Lamp Factory without an order from me

For the future please admit no one whatever to enter the Factory without an order from me, and even in such a case make your explanations as brief and superficial character possible

Yours truly

T. A. Edison.

P.P.P.
Orders from my office to admit persons not connected with the Edison

29th [illegible]

Wm Wright Esq
Drexel Morgan & Co
City

Dear Sir

Please let me have current Drexel check for $5000 on account of payment due me on a/c of contract in settlement of patents & property of Edison Electric Light Co

Yours truly

Thos A Edison

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y^th Oct 1

Dear Thomson,

Nicholson called me that he has appointed Conrad Cooke (Cooke & Ledger Photographers) of Engineering that they will render us some kind of service at Cost. Now I think you should get hold of Cooke have a good yarn back with him & tell him you want him to be connected with us in an official capacity. Give him a hint to understand that he will be treated more differently to the way in which Nicholson treated him. You should also get hold of the man who controls Electrical subjects for Engineering & do the same with him. Arrange the matter with Dalbiac & put the thing on a thoroughly business like basis. These men may assist us considerably & it is just as well to avoid them.

Dalbiac sent me the enclosed regarding use of Exhibition at the Imperial Palace. The exhibition seems to have acted as a fine class advertisement for the Light

I am quite willing that the Paris exhibit should be sent to the Cryotal Palace for exhibition but as matters now stand I do not see any big advantage I think Fabbri should bear the expense already the cost to me in the way of entertainments has been very heavy as I do not think he should expect this. If anyone else in any circumstances, he would have to pay for the light part of the exhibit. Sir Fabbri should do what he will do.

I gave Cable address Thos A Edison

Yours truly

Thos A Edison

Dr Stead

9th Oct 1

My dear Stead

Look at the article on the Exercise (by Swan) on page 229 of September 23rd No. You will see the sheet of the fellow! He has I hear been able to find nothing about Evans doings in the proceedings of the new Castle Court except a publication in 1808 headed a Cursory Lamp, with a pencil of sketches in it. I think you had better send up all the Transactions of this Society (except the exact name) and also Evans one as he [illegible] has attended all of the meetings of the Society during the last few years and ascertain just what he did read.

You will see that the following Rules must be placed the cautions in the pleasure in 1809. No is now trying to get the cradle of this the glorious will naturally arise who does not he do it now) as it is the only practicable way to fix the cautions to the Champs. Why does he adopt his present cumbersome

plan of the bar the platting discovered two years ago. It is very evident that seeing how we do it, a new method to claim it, having been so successful in getting this claim to the camp generally recognized. It is essential that some communication should be made calling attention to the following:—

1st. We did not apply for any portion after any Camp had been announced all over the world.

2nd That the records of the Society shows that he had only an old King Camp with a parcel of cattle.

3rd That he now knows that we plate the cattle to the camps and although not having even touched it he announces that he had it. That he showed it to Sir William Armstrong but did not mention it at the Society Sir William Armstrong could have been easily misled not being an expert and also being an interested party as Vendee and, makes the whole

Hiring Clerk very suspicious
of orders these various
explanations on speculative people
who all rub, read and think
after you have subscribed yourself
he is to the Lords your obedt
and attentive Servt to the matter
Your orders for machine
composed engines are all being
attended to. We will take care
not to mix up orders.
I cannot understand
why you and do not give
her orders. He never understands
that in as much as we have to
supply a great many people we
cannot expect to be punctually
attended to unless orders given

9th Octr 1

My Dear Batchelor

I have yours of 28th Sept

There is nothing in the Sprague matter we do not intend to use the Prime motor and Spragues Patent is cancelled on account of the fact that he does not claim enough for anyone highly skilled in the art to make a working motor. His English Patent was given to me as a specimen in this matter and was decided not to be a good specimen and no one in the Patent office could make it work

My application for England with the Appeals &c weighs two tons in England before Sprague finished his application.

The United States to will regret buying the Patent as I shall beat them on Interferences

What do you mean by this "as (Sprague) has an idea he sold "his Patent to Edison". I have said I-me one has been mentioned

Yours truly

Edison

Sirs

J. A. Cowles Esq
Secretary
Compañia Minera y Copperia
19 Wall Street
City

Dear Sirs,

Enclosed please find
[illegible]

José E. Naranjo Esq
Compañia Chilena de Explotacion
de Cobre de Catemu
Valparaiso. Chili

Dear Sir,

Referring to your
personal letter to
Telephone Agreements
Bolivia
with the assignments
ready for Mr Edwards
signature but want to
submit them to be
reduced before sending
them to you so that there
may be no mistake this
is reduced in the
wear but will be back
again in a few days when
I shall be getting the
assignments copy by

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Abcott Cummington Mass
Lawrence. mass

Dear Sirs

Please make two
engines of the #750 pattern
with exciter valves fitted
to them. These engines
are for shipment to Europe
and are wanted at the
very earliest possible
moment. Please let me
know when they will
be ready.

They must be shipped
to Gosnell & Co to be tested
& changed to 110 Edison
machine wounds

I have not yet received
the large order from England
about which I spoke to you
am expecting it daily

Mr William Nagel
Menlo Park
New Jersey

Dear Sir

The application
for patent that you
signed negatives to be
sworn to before Notary
Public. When convenient for you
to come in to do it. I must
not be sworn to
[illegible]

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10th October 1

Ex. vide Paris

Felton absent on behalf of actuated to pass upon merits validity and terms of contract also retain Dronah lawyer. Data for engineers goes this week. Paris dynamo gave fourteen and seventy hundredths eight candle lamps per indicated horsepower English fifteen and seventy hundredths eight candle lamps. I put in eight

½ candle lamps as that is nearer gross set. We shall do better but wont guarantee until we do. Investment not ~~exceed~~ exceed nine dollars per eight candle light actual burning at maximum season. Investment less than nine dollars in good districts Lamps being included in running expenses. Depreciation three per cent ~~and~~ on total investment. Consumers

Pay for wiring their own houses but after first station commences & second station pay for service mains to houses in addition. Coal producing light will depend upon many conditions. Impossible make estimate except conditions known. Their engineers should do that. Coal will however be less than gas providing several stations are put in operation

Coal producing gas increases in rapid ratio as competition reduces their total sales

10th October 1

Hercules Pain

Will authorize you sign contract if approved by Lowrey and Batchelor after details is same settled and approved here

Edison

22 - 5.50

by means of any Lenses
Light than it possesses
to get with our Light
And our Keeper exam
ined at the B. L. with
the Light staid up & they
seem perfectly satisfied
with it. could not hear
that the Partners of the Dem
ise were much pleased
with it.

Capt Lane and
others say they see the Light
sometimes three and
suggest that one red at
the Baldwin Pier. This com
evening I am there again
will notice the red from
made sure one can see
at Head Pier.

Capt Lane gives
Lens and Lantern in
the Baldwin Pier

Addison B. Burk Esq
Public Ledger
N.W. Cor. Sixth & Chestnut
Philadelphia

Dear Sir

I am very much
obliged to you for your
favour of both calling
attention to the lighting
of the Baldwin Pier. and.

I understand that
the plant was sold to the
Baldwin Pier works in
pursuance the same way as
one named to Anglesea.
Pier. If they can to put an
Oil Light on an petition
with one can hardly
prescribe them. Above said it
is a competition I am
not at all afraid of
as I know I could more
effective light for Half

15th Oct

J. R. Knight Esq
Dear Sir

Referring to yours of 10th inst. re Marshall dynamo you have for testing. You can get a Pattern and Core Box and Pulley Pattern you can probably do this by hand turning. Spider Casting and Spider Arms to be Steel Nickel Hard.

Ask Mr Newton if he has placed on the plan where he wants the Light as if so we could supply him with a Small Dynamo

Yours truly

15th Oct

Jno G. Gilmer
Concordia
Kansas

Dear Sir,

Referring to yours of 11th inst. if you think I can make the matter for a little you will see that the multiplicity of Point will not work.

A great many attempts have been made on these same lines but without success. The Point was connected to a separate telegraph line with which would be

Yours truly

18th Cal

Messrs Samuel Morgan & Co
3 Broad Street
City

Dear Sirs

I have your favour of 17th and in reply beg to state

1st I think that ultimately we shall have to establish a Factory in England but for the first three or four stations the machinery can be supplied from here at lower cost and much better made than could be had a Factory in England to do the work straightaway.

2nd We will supply the Lamps for the isolated Entrances ("Y" pyramid) at sixty cents each. When a station is started I will supply them at forty cents each for the purpose of lighting up a District I am certain it would not pay for a long time to come to start a Lamp Factory in England as freight being low and there being no duties it would be impossible to compete with our Lamp Factory here as we have established such a perfect system of manufacture and trained men who are now very skilled and experienced

3rd I would contract to deliver twelve

"I" I grant for each can use in England without interfering with my supply to the Electric Light Company in this Country

4th I will duplicate the Big London Dynamo within sixty days of the order being given. We will deliver Station Dynamos at the same price as to the Light Company here. The exact cost cannot be ascertained until we have made more of them.

5th As to the Exhibition at the Crystal Palace it has not yet been definitely decided to remove the Paris Exhibit to London. Mr Pabbé first communicated with me on the subject. I then wrote to Mr Johnson requesting him to consult Mr Pabbé on the subject. I stated to Mr Johnson that in as much as the exhibit of my other inventions would add considerable prestige to the exhibition of the Light I thought that if the exhibition was made Mr Pabbé should provide the funds for the purpose. I have no interest personally in making such an exhibit as is asked for as my inventions, with the exception of the Light, are all disposed of for England

My expenses in connection with preparing the instruments for the exhibit at Paris were very heavy indeed and I had to bear the whole of it myself. I shall be glad to see the exhibition made at the Crystal Palace as I believe it will greatly assist Mr Fabbri in his negotiations in London

Very truly Yours

Thos A Edison

20th Oct 81

Mr. Clarke

If you take the responsibility as to any trouble occasioned due to bringing both mains up to the side walk all night. Upon such a condition I will give my consent but I want it distinctly understood that I do not at all believe this the right course to pursue and that a little more brain power on the part of some one would devise means and methods whereby this would be totally unnecessary. Perhaps you may be able to see a way of doing it. I think that about Six or eight hours solid thinking on this thing is what is required

Thos A Edison

Major Eaton ✗ 20th Oct

Cabling. European Co

"I do not think the way these
"cabling business is managed
"is right"

For instance. Cable comes at
11.30. Mr Edison Mr Pacheo
& myself discuss it. Reply found
& reply decided on. I go to
W.U. office and came. Don't
you think it could be better
to have a clerk & messenger
boy here till the small hours
of the morning waiting to reply
to cables. You would then
be sure of having both cables
& replies therefrom. And in as much
as Mr Bankes has developed so
wonderful an interest in the
business I will undertake to
chaperon my lad with him so
that he will be here to decide

the form of reply.

Such an arrangement would be agreeable to myself & Mr Edison also I imagine as it would give us several hours extra sleep every evening.

I feel mention this as a suggestion to overcome a very great difficulty.

As a matter of fact you always do see cables & this is the first time there have been any chance to complain.

The cables were answered but the copies of the replies were in such a form that I was obliged to copy them out before showing them. I ventured to attend to one very particular cable which had to go by yesterdays European mail & afterwards to an appointment which cuts

not be delayed & I should have
moved back if I had attended
to the cables the contents
of which being disagreeably
one added more out of such
great importance until
explanations for which we
called could arrive from
Paris.

Mr Edison to see me in the
building knew what the cables
contained was cognizant of
the answers there to & could have
helped you out of your
difficulty.

I told Mr Hamming I
would be back at 4 o'clock
or perhaps not till 5 o'clock
& Mr Bennett would [illegible] chargeable
is not chargeable to my
age. If you think there was
any negligence on my part I
would prefer you to submit it
to Mr Edison Samuel Insull

21st Oct 1

J. Hood Wright Esq
Inverness

Dear Sir,

The following is a resumé of the proposed terms between Syndicate at Paris and Edison Electric Light Co of Europe.

Factory. Syndicate to subscribe Frs 1,000,000 ($ 320,000 on signing Contract and to increase that amount as required European Company to have Founders shares carrying half profits after 5% interest is paid on money subscribed Syndicate to have 25% of European Company's Founders shares. European Company name majority of Board of Directors for three years & Founders to have full control of factories

Isolated Buildings. plants sold in towns not having more than 10,000 inhabitants & in plant sold outside towns to be equally divided between Syndicate & European Co.

Exploitation. Syndicate to furnish $ 2,000,000 on signing Contract to be used for exploitation & defending patents. To be returned out of funds

profits.

Forming Companies. Syndicate to form Companies for cities or Countries as may be agreed upon & minimum Capital Frs 2000,000 ($400,000) each 100,000 inhabitants: European Co to have 45% of capital of all Companies formed. Syndicate to have 28% of proceeds received by European Co. No contract to be made without full approval European Co who are to have fifteen days to decide & three months in which to make another contract failing which they must accept Syndicates Contract

Parent Coy to have one third of the Committee of management appointed by Syndicate & direct supervision on Boards of all Companies formed.

These are the main points of the proposal. I will see you probably Monday as to what is called us concerned

Yours truly

Leon Lewis

25th Oct 1

John Mackellar Esq
Licensee
Room No 17
Tribune Building
City

Dear Sir,

I hereby give you notice that I will at the expiration of sixty (60) days from this date, stop the further publication of Licence if in my opinion there has not been in the meantime a great improvement in the valuation of the property

Unless you receive further notice from me you will please prepare to close up your account to that date when I will dispense with the further services of yourself and your staff

Yours truly

Thos A Edison

25th Oct 1

E. N. Stuart Esq
Metropolitan Casino
Forty first St & Broadway

Dear Sir

I should have written you yesterday but understood you would call last evening at eight o'clock

It is difficult to make an appointment for you with Mr Edison as it is so uncertain as to when he will be here. The best time however to catch him is in the evening between 7 & 8

If you will let me know what night it will be convenient to call I will endeavour to have Mr Edison here

Yours truly
Saml Insull
4 Fourth St

25th Oct 1

My Dear Sir

I enclose check for $829.14/100 in settlement of accounts to 15th October as agreed

I also enclose you notice from Mr Edison re stopping up the publication of Lecture

Mr Edison feels that it is a very good investment, and no pecuniary return & therefore thinks it advisable to have the matter up before many a much greater loss

Yours truly
Saml Insull

Jno Michels Esq
Lecture

Per L.S. Gallia

28th Oct 1

To Messrs Gaumont
6 Lombard Street
London Eng

Hy Dear Sirs

Upon receipt cable to Johnson & yourself I at once got you as follows

Ship immediately three only light complete outfit without power. Cable price and steamer Dueck advised.

to which I today replied

Price plant will cost twenty two hundred forty five dollars. Will cable shipment. Am telling you under par twenty. Dueck only entitled pay for three answer almost a month intervened between your order for twenty machines & the receipt of your above quoted cable. On the receipt of your first cablegram I ordered the stock for your machines & set my shop at work on them. Your long silence caused me considerable inconvenience as you not being punctual in answering my enquiry as to how

I want to get payment made no difference to my creditors who sent in their accounts with that same shewing regularity as to their want.

I have only heard accounts to such early week when of course is natural with a very large & expensive shop, my resources of manufactures are bare to their utmost & the case if you want machines you must back up your orders by paying where I am to get my. when I receive I should not be quite so sharp after such things but as I am not I have to stand personally & weekly expenses of from 1200 to $2,000 I have to take very great care to keep myself out of what would be a very big hole.

Further more you must remember that the contracts you conduct have got to be signed in very legal form or else it will be the same as the Accn on many mechanics on Telephone - offices will occupy the ground upon me. Yours truly

Thos A Edison

Pac A.S. Galicia

25 Oct 1

Mr Theo Johnson

You cable me that Drexel could receive instructions from Paris to pay for the small machines engines ordered by you. Up to last night they had received no such cable from Paris, so I do not want there to be any trouble when she calls and presents I cable you this morning

Drexel not yet instructed Impress that you arrange for payment immediately machines are finished

In reducing machines please remember this as soon as I do get all payments promptly I have quite as much as I can possibly swing In financing I have to sail very close to the wind & consequently must look sharp after such matters

Yours truly

Thos A Edison

Per S.S. [illegible]

23rd Dec 1

Col Jos E Gouraud
6 Lombard Street London Eng
My Dear Sir,

In your letter of August 4th you say nothing whatever about the deductions you made in rendering your account for the Glasgow Royalties I have been waiting to hear from you on the subject but apparently in vain as your letter above referred to is the last I have upon English Telephone account.

I would draw your attention to my letter of 5th June in which I stated my reasons for objecting to your charging me with the half share of the Commission paid to Moore & Maddan. In my letter to you of 20th July I again drew your attention to the matter and I am very much surprised indeed that you should not have paid the slightest attention to either communication

As to your letter of August 4th you evidently overlook the fact that you sent Shares which on your own responsibility. I did not enclose

to sell my United Shares before you got them, neither did I instruct you to sell 2000 shares. My letter clearly stated that I had instructed the Secretary to send the shares to you & you could not by any possible means whatever construe the letter as instructing you to sell shares. Further more there is no mention whatever in my letter of an amount of 2000 shares being the number you sold. If you were not prepared to take the responsibility of selling you should have made use of the cable. You chose to settle the point for yourself & I cannot for a moment see why you should want me to bear half your loss owing to the mistake. My loss by your selling has already been great enough. If you had held on till you had the shares (which is what you ought to have done under my letter of March 9th) I should have been £10500 better off. because the shares would have realized £8.0.0 instead of £3.1.0 each.

I would be glad if you will send me a cable remittance for the

Have accounts (Glasgow & London)
immediately on the receipt of this
letter as I am urgently in need of funds
Please acknowledge receipt

Thos A Edison

2 or 4 October /

Edmonde Paris
If Lowrey leaves retain other
counsel if necessary

10pd

26th Oct 1

Edward. M. Stuart Esq
Metropolitan Casino
Forty First St & Bway

Dear Sir
Referring to yours of yesterday Mr Edison will endeavour to be here at 7.15 this evening.
If he is not here I will be pleased to see you
Yours truly
Saml Insull

26th Oct 1

Messrs Drexel Morgan & Co
3 Broad Street
City

Dear Sirs
Enclosed please find check for $4816.33/100 which please transmit by cable through your London friends i.e. A. A. Calder 71 Queen Victoria St London deducting therefrom cost of remittance
Yours truly

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Mar 5th 1

Actual Costs
no profits

Mr Louis Bazalgette
33 Avenue de l'Opéra
Paris France

Dear Sir

I beg to send herewith the list of the various sizes used in the system of Electric Lighting, & beg to state as follows.
The cost of the Lamps is strictly cash, all orders made by contract with the Edison Electric Light Co. & I am compelled to sell at strictly the same to them. But as the people are anxious to get the Lamps I am willing to sell to others at the same price.
I enclose a list of the sizes and the charging for same in the future.

Edison Actual Net Cash Prices.

Superintendence the Laying of the Mains & Mains Engineer		5 @ 6 f.
Digging, Filling Lead, Joints		15 cts.
Feeders No. 1 Circ. 1639590 cir mils		2.60 p. ft.
" " 1½ " 1296418 " "		2.60 " "
" " 2 " 862.976 " "		2.38 " "
" " 2½ " 671.362 " "		1.73 " "
" " 3½ " 481.937 " "		1.10 " "
Conductors No.3. Circ 262.951 cir mils		.64 " "
" " 4 " 182.884 " "		.47 " "
" " 5 " 107.287 " "		.36 " "
" " 6 " 66.384 " "		.28 " "
" " 7 " 33.015 " "		.22 " "
" " 8 "		

* No.3. is the mains used in the first district

Service box and cross bottle with rivets of copper of 20 oz to each square foot, with brass frame, paper pieces for 12 to 3 tubes 1.82 per ft.

T Box & Cross	for 12 to 3 tubes	2.63 "
Cross Box & Cross	" " " "	3.36
Coupling " "	" " " "	1.40
Elbow " "	" " " "	1.70
Feed Coupling Box & Cross	" " 3" to 2 tube	2.20
" " " "	" " 1" " 1/2 "	2.60
" Elbow " "	" " 3/4 " 1 "	3.50
" Cross " "	" " " " " "	3.35
Cost of tube per square		2.35.

The cost of the Steam Cranes and Valves is as follows.

10 light-running 350.00 (when actual expense per piece is less than 450 to 500 lbs per sq. foot 200 to 300 lbs)

Standard running for central station including engine & boiler of the capacity of the pipes below and the number of cranes of the following weight 1800 lights

4" Steam cranes Double valve	$100.00
3" " " " "	150.00
2" " " " "	230.00
1 1/2" " " " "	270.00.
1" " " " "	315.00
3/4" " " " "	

The cranes in lots of 100 and reasonable annual expense of Valves will cost about 4 to 5. The cranes are the actual cost of cranes as the valves will cost 4 to 5 without cranes. The pipe cost will vary with the size of the

Estimate for Central Station Motive Power and Plant

Two Babcock & Wilcox Tubes complete erected	$ 9,000
1 go 100 H.P. Chimney erected	1,200
One Standard 150 H.P. Tubular erected	6 300
One Steam and Exhaust Pipe connected	1,000
Steam Gauges &c fixed	.600
Vacuum	1,200
2 Valves Engine and Boiler	800
Two Feed and Blow off Pipes complete	1,200
Two Indicators &c	200
Station Appliances Wrenches Oilers &c.	2,000
	33,400

See Note Sheet No 1 Central with Estimate No 1 Year 1882 Estimate 33 for cover

This estimate does not include the Foundations for Engines or alterations in the Building, but it is to cover Engines Boilers and Dynamos complete with the necessary

further information furnished if you ask in detail

T A Edison

6th Nov 1

James R. Upton Esq.
Menlo Park
N. J.

My Dear Sir

I deem it fortunate that you called to the fact that the new lamps are getting out having their enamel very badly indeed. The majority of the lamps in use now putting up and on the trial on second night or gradually oxidise on the fourth or fifth night. I should say the average life of the lamps now turned out is about twenty four hours this is undoubtedly due to poor work in sealing & may occasionally be the defficulty in getting vacuum. While first and with the leakage is small but whatever it may be a change has got to be made and now are taken in sealing we do in about days.

Yours very truly

Th. A Edison

7th Nov 1

Messrs Wade Fetherston & Co
Bond South Street
(City)

Dear Sirs

The discrepancy between the number of lumps per barrow which we claim and what you obtain is due entirely to the extra precautions on the building and shafting when the extra load comes on. As we have indicated at least 20 different lines of engines working from one hundred pounds pressure have been incorporated and never get less than 12 to 14 lumps of right quality coal by the ordinary mode and we have ourselves been indicated by many different persons who have figured the thing out both in the old manner and by planimeters and have found our figures are correct the only obstacle to obtain the fault is attributed to us & not in our lumps and maintain by my mind the whole trouble is due to the failure to recognise the fact that there is an enormous loss of power when transmitted through several series of belts. We are glad to put in a small Lancaster Engine and connect the Dynamo directly with it you would

Rochdale to get the second candle, but
find I could guarantee twelve eight
candle eight power indicated horse power
if only an engine is used and that you
will have no trouble difficulty in the
matter. If you find it inexpedient to
fuel on a small ~~[illegible]~~ engine one will
take the dynamo back and be fuel no
good feeling on each.

Any night this week of the
gentlemen, who have ordered your
present engine and made these calculations
has time he may come to Gawcott
by myself, by rail and may should
and I will fuel up 150 eight candle
lights on a small engine and if we
do not get twelve lights per indicated
horse power I will agree to our engine
dynamo lamps and all

Yours very truly

Thos Parkinson

3rd Book

G. P. Edwards Esq
Post Master
Miah

Dear Sir

Referring to your letter of 21st ult. I beg to request you to inform how many chains it would take to contain my R. R. & also state, if you will do the same for me

Yours truly
Saml Sewell Esq

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Nov 8 1

Mr C. Alsop
110 South Street
Manchester Eng.

Dear Sir,

Your communication of Oct 17 having been handed to the notice of Mr. Edison he directs me to refer the matter to Mr. E. A. Johnson Esq recently ~~agent~~ in England at No. 6. Lombard Court which I have accordingly done

Your Obt Servt

Samuel Insull
Secy

Nov 8

Thomas A. Edison Esq
65 & 67 Broadway
City

Dear Sir

Referring to the request in your letter of Oct. 31, for permission for the Members of the American Society of Mechanical Engineers to visit my shops etc in this City, would be to say that during my experiments on the Electric Light &c at Menlo Park when anything was under way or critical visitors were always welcome to visit my Laboratory and shops. But however matters are in the hands of the Company and I very much regret to say that I feel to any visitors cannot be allowed for the work.

Yours Truly &c.

Thos A. Edison

16th Nov 1

Col Jos. G. Swift
Engineer
Washington

Sir

Referring to our cable correspondence on the Execution Light Vessels I have received from Messrs Maughan & Co notification that they are prepared to supply four vessels on receipt of Invoice & Bill of Lading. The Lloyds Surveyor here reports that all the ships will be ready for delivery in March next

I have duly received your favour of 29th. I am rather surprised that I should have been put to the inconvenience of having machines on my hands and which I could not realize while I was in the receipt of your letter asking me to supply one of them to which as a Shareholder I am very justly entitled. You seem to regret that I have made a heavy investment of my own personal funds in order to create an establishment where I might be enabled to turn out Engraving machines at a low price. The figures I name to you are much less than you can get them manufactured elsewhere & will enable you to sell at a price which will

kill all competition. I know also that you have an equal advantage in procuring a much better article to present to the public.

In previous years to start the Edison Machine Works I have been obliged to sacrifice a great deal which sacrifice could only be justified by the extreme necessity of building up such an establishment & even I to accede to your request I should have a very [illegible] capital quite unremunerative.

As a matter of fact I do not at present make a cent on a single dynamo sent out of my works & do not expect to for some time to come. As to the lamps I sell them to you at the same price I have to pay the Lamp Co & the sockets & other sundries are also charged at prices paid by [illegible] Co.

I think if you were to get estimates from other people to turn out any number of the machines you will not wonder at my surprise at receiving your letter.

Yours truly

123 Cortlandt 1

Jno Kinnear Esq
Electric Tube Co
65 Washington St

Dear Sir

Professor Barker is going to deliver a lecture before the National Academy of Science next Friday.

Have send him a set of samples of our Tubes in red each length the same as we have got here also a Junction Box with a removable wooden cover and one with the cover connected up & soldered but not filled in also one a round Box connected up.

Send these expenses prepaid by Wednesday at the latest address to

Professor Geo F. Barker
University of Pennsylvania
Philadelphia

Please let me know if you can do this

Yours truly
Geo Ashton

12th Nov 1

Edison Lamp Co
Menlo Park
N. J.

Gent'n

Ship to Prof. Geo. F. Barker University Pennsylvania Philadelphia 50 K 1/2 pcs & K.P. A. Lamps 1 also 50 B. Lamps of relative economy.

These lamps must be of the same code & shipped at the latest Wednesday morning. They should be fitted with the form of socket.

Please pay express age.

Also ship to one one dozen B lamps of low volts & want three of them to have pointed globes

Also ship to R. Mitchell & Co Chester Penn Six B Lamps.

Lamb get Mr Goddard to see orders for these on Monday

Yours truly
Chas A Edison

10th Nov 1

Messrs Bergmann & Co
11 Frederick St
city

Dear Sirs,

Professor Geo F. Barker is going to deliver a lecture before the National Academy of Sciences on Friday next.

Please send him following by Wednesday morning at the latest.

Three three light Chandeliers
One Two " "
One One " "
Four oval wall Sconce Brackets
Four Round Sconce Brackets
Pairs of each kind of the fixtures that you own the Two Pendent
Two of the tripod gas pipe chandeliers that have the claws with a long drop
Also anything you think might be useful to show such as cocks with a spike to fix in wood
That opening a undergarment to put inside a clock
Three oil Japan stands for lamps
One Astral lamp with a Bronze Reflector.

Send per express Chaises with all
their things & baldrics except a
few large chaises to go with the
remaining chandeliers
Send sturdy capely Cabt Blocks
with a supply of plugs for from
one to twenty lights
Send also some iron upright candlesticks
for reducing off from five to
one hundred lights.
The Cabinets are to be of the
No Kind and it cannot be ex-
well for you to send some extra
ones
All these things should be
got together & shipped at the
very latest on Wednesday morning to
Prof Geo. F. Barker
University of Pennsylvania
Philadelphia
as he wants them for a lecture
on Friday
Bill them & send on bill of lading
Light Co Rec'd 1000 bill to come

Yours truly

Nov. 17. 1

W. F. Moss
Esq Remington Ind.
Care Conover Bros
Burns hair & different dyes made expressly
send 25 cts in stamps for Circulars

S. A. Ewin

31 2

Nov. 16 — 1

S. A. Ewin
Monticello Ind.

Note says Rail Road diarrhea are in
Library. We says Ethan Allen when Pleas
are.

D. Spencer

Charles N. Dorr Esq.
of Daniel F. Beatty
Washington D.C.

Dear Sir

Referring to your favor of Oct 25th Mr. Edison writes me to say that he has had your letter referred to the proper officers of the Electric Light Co. but they do not feel disposed to deviate from the established rates for isolated lighting.

The present demand for lighting in the factories etc. has caused their manufacturing works to their full capacity so that now a separate company is in formation for the relief of the Parent Company from this special branch of lighting.

The company would like the privilege of [illegible]

Lighting the works of Mr. Beatty according to their established rate which may possibly not exceed the named terms of other companies.

Thanking you for the interest manifested

I remain Yours Truly

[illegible]

Dec 21 1

3012

Mr. Thos. Reigle
Room 7 Sentinel Building
City

Dear Sir

Enclosed please find check No. 326 for $2.44 to cover cost of your notice of Sheriff's Sale pursuant to writ issued in case of Kirk vs. Reigle.

Kindly attend to same at your earliest date. Also Edison Note address to his office & oblige and fully attend to discontinuing the publication of Sheriff's Sale the expiration of the term (60 days) therein specified.

Yours truly

Saml Lucas

Kirk vs Reigle & myself have been out of town all week & could not have attended to this

Pac. Edison Collection Co.
19 Union Square West
City

Gentlemen

Enclosed please find check No. 202 for $49.00 in full of bill of $48.71 as per statement rendered Dec. 81
Yours truly.

Saml Lucas

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21st Nov 1

Dec 21

T. Watrous
55 West 14 St
City

Dear Sir

Enclosed you will find $ 20.333. for
76 Shs on full of account of
our Electric Concern.

Yours truly

Saml Insull

Nov Dear Bartley,

Do you receive my speaking to you about my Electric Rail Road when I was returning from my trip to the West? Please write me in the morning simply "yes" or "no". I want this information in connection with Rail Road interference with Siemens now.

I was glad to receive Papers containing report of your action on what you call Panic. I hope that you received the message sent, I ordered to be sent yesterday night.

I have given instructions how you could Arc Lighting to be furnished up right away. when will you be ready?

Yours truly

J A Edison

Feb 22 1

22nd Nov 1

Saml Sewell
Esq

Henry Villard Esqr
Nassau Street
City

Dear Sir

Enclosed please find
check for $6186.50/100 in
full payment for the
Electric Rail Road

Yours truly
Saml Sewell

Dear Sir

I enclose you herewith
itemized memorandum of
expenditure up to date on the
Electric Rail Road amounting
to $6186.50/100

will you kindly
hand me a check for
the amount and oblige

Yours truly
Thos A Edison

X

315

Mar 22 1

Messrs Shaw
Lane Rochard & Co.
23 Pine 27 Wall St
City

Dear Sir

Will you please send
by boat, 400 Mackie Notes
to the Paris Panama, as we
want them for Scientific Amu-
sement & when the Messenger
will take them

Yours Truly

Saul Samuel
Per

22nd 1861

My Dear Mabie

Will you please go up to Mrs Cram and see if you can find the return of the Indian papers about 20 or 25 years ago and if you can find it examined & certified before an Associate Justice & bring it down with you. I think it was about the time that Gleason delivered a contract on Contings.

If the return is found I expect to remember it & the manner it was made out & then the Contings & the Indians were examined the Record which was on a table.

If you can find the description of the Contract get the volume loaned to you & send it by express to me. I will be responsible to the amount of $200 for it & return it in a month. It is important & can be no evidence in a law suit.

I think the Contract was in Landers Vol 3.

If you cannot get the volume have a copy made & certified before Notary Public or Justice of Peace & forward it to me as early as possible.

Yours

T.E.

2nd Nov 1

Rt. Revd. Lord Bp. of
Lincoln Palace
City

Dear Sir

I beg to acknowledge
receipt of your letter
of 27th

In answer regret to
state that no such person
can be found here & after
the Bishop's return on 3rd.
there is nothing to prevent
your visiting Buckden
but now at his Lordship's
request I shall be
happy to meet you at the
Castle Hotel Peterboro' on
Thursday 4th inst. at
Noon if that
will suit you

Yours faithfully
Alfred Leach

2nd Nov 1

Messrs Blencowe Ley
& Gibbons Solrs
City

Dear Sirs

Mrs Bennett
Mother Superior
of Convent of
Good Shepherd
Hammersmith

Mrs Bennett has written
to me stating that
Charge expenses
being Incurred. Please
let me know
Yours truly James
Alfred Leach

28th Nov [illegible]

Edw. H. Johnson Esq
57 Holborn Viaduct
London E.C.

My dear Johnny,

Your lengthy letters [illegible] before me and I give you below my answers and comments thereto.

Yours dated [illegible] Thanksgiving Day. We have not determined to put Bills unless in [illegible] details. Your information from outside [illegible] is [illegible] what we do want [illegible] but it is too late [illegible] for the [illegible] District. If [illegible] would go ahead and get his [illegible] going we would use it. Of course we do not care anything about interference from Induction [illegible] what we intend is a cheap wire for lighting ~~cheap~~ street lamps winding clocks &c. The other matter namely a general system of underground telegraphs has been abandoned for the present. Let Delany show us progress. You seem to have got badly off your base on this question. I have not the slightest objection to your being interested with Delany but what I do desire is that Delany [illegible] some one else

made proceeded as cheap board
[illegible] cubic [illegible] I saw
go ahead. I could give [illegible] cheap
[illegible] [illegible] will and not
[illegible] [illegible] [illegible] the
cable made by [illegible] [illegible]
[illegible]

[illegible] I can make [illegible]
that I [illegible] [illegible] that the
other [illegible] and explain [illegible]
[illegible] [illegible] [illegible] I made [illegible]
that the steam dynamo would be ex-
[illegible] and lay them alongside each
[illegible] [illegible] it was wanted
[illegible] liability in the great thing
now to be established and then every
thing will be a success and then you
know it only [illegible] by having
a spare machine. The engine for the
new steam Dynamo is ready and will
be mounted on the bed next Tuesday
[illegible] are putting the [illegible]
together. The [illegible] have all
[illegible] [illegible] and; the pieces
are [illegible] and finished
excepting [illegible] the edges. The moulds
taken [illegible] are ready. The commutators
have [illegible] and they are
putting the commutator together
The [illegible] of the field magnets

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are all done & the finishing touches
are being put on the cast iron
ends. The machine will probably
be shipped in twenty one days
from today. What did Batchelor
decide about the Paris Dynamo
where is it going? We are negotiating
now for several isolated places
where 2500 B lamps are wanted. In
these cases we intend to put in
two steam Dynamos and keep one
spare. I will have sent you two
copies of our little book. It is the
first edition and very incomplete
will send you some more in a
few days. We hope soon to get out
another edition which will be much
more complete. Of course we do not
want you to order Dynamos
that you cannot dispose of but
only thought we would send you
a gentle insinuation that we would
like to dispose of some to you.

Mr Puskas is entirely too
sensitive. He takes up slights though
that are never intended as such
draws wrong inferences and
misunderstands motives. I think
he is one of the nicest men to
get along with I ever knew but

as we peaceably can unless
attacked in the sale of Camps to
the Paunee Company you know if
we put up Camps on our District
and cannot get money to light them
we cannot possibly make more than
$300 out of the stuff coming from
the Camps before it dies. Now it will
take $2 or 3 pay for pickets dividends
on the capital invested leaving a
dollar for waste. Now if you
sell them to the Paunee Battery Co
at $1.15 you will make with five
cents without any investment, from
the Camp dies all in the case of
a Contract Plant you make fifty
cents and have no Capital invested
in taking all things into consideration
if you can sell Camps in London
for $1.15 you would make just as
much as you want to invest the
money in a plant necessary to
make the Camps substituting the
wood collected on the money invested
before deliberating the people from
the value of light through the Camp
before it dies. I therefore see no
objection to selling our Camps to
the Paunee Co if they will call
at the Eleven Camp or at any

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time by shutting down on them so as to go days we can depend them upon all lamps by natural breakage & breakage. This gentleman was very keen on getting round but gave himself away after 15 minutes of conversation, as we kept closely mouth. He got no information from us but told us this firm (C. M. & Co.) have undertaken to make 10000 lamps for the Law for people for India and asserted that they could be made for 12d each but not under

You will find by looking carefully through the Journals of the Chemical Society of last Octr on Wynd that we in 1879 found all the same and for him found a paper he found that Mr Crutty on Incandescent Electric Lamps regarding the smoke upon the sides of the glass tubes and in this paper he states that he used a pencil of carbon which burned in a jar away on his 20 years experience. You will notice in the diagrams before the Society of Arts in the latter part of 80 and beginning of 81 he showed that he knew nothing about the value of high resistance & a flexible filament of carbon. We stated that he did not

(c)

believe on any method of marking
on multiple use & that by the
use of a ruler can be
of higher economy. How you know
that that has nothing to do with
economy. If you make two lamps
one of 100 candles one of 100
candles of the same radiating surface
and adjust the wicks so that each
will give its candles the economy of
both will be the same leaving out
consideration to the shapes & that the
light will be the same lamps will
be the same but there would be more heat in
the 100 candle lamp than in the
other lamp therefore when
he says that economy is gained by
a smaller ~~or less~~ consumption proves
through the filament he should that
he or anyone else teach the first
fundamental principles. He does not
know the object of high resistance and
therefore if he stepped that he would
have any filament filament would
boil off & his 100 candle lamp
would then become the same as the 50
candle lamp & the lamps would
both burn 100 candles before the
filament would burn out by an accurate
comparison made by say Napier,
you will not show the least proof of that
notion whatsoever. The enclosed

on high mountain. The only cave where he could abide in a mountain was with a pencil of cedars & all these in any wonderful. I have not seen his palace for some time but thank the Lord universal & final specifications of the vast ideal upon us.

You will probably have noticed that Lewis visibly alarm that he praised the cedars & the stamps. He seems somewhat scandalized that of that we will that the does not exhibit no to do. ing seems peculiarly spiritual & that he loves to claim other people work & envious to calumniate the men of enlightened responsibility while acting as Royal artist. His compliments would all be bloody flattery & insincere that evil style. Upon Balak, I suppose, waited three days & nights & Jerusalem palace & pagan and how the devil he counted for his allegiance & one many married in doing it upon the palace. I do not believe that a man however much divided in the devil could write & counsel upon a serious conversation by respecting to the palace. It is nothing more than an old Jewish accumulation with double pious allusions like Paradise Lost. The Seminary annotations had 92 on each

of cloth on each side of the cylinder
& bending on the wide near women
thin. I would like the old
Lecture relative thereto, and if you
with a frame of Procedure bending
Engine shall have any trouble
about Regarding the new plate machine
invented under the Act for which
patent was granted all machines
Clock Local & Central station machines
could be made that way.

Regarding Fabrini European
proposition you state that he
accepted it, my impression the offer was
the final & he only one else here heard
of it. he never received any such offer.
Enough until we hear by mail
copies of cable & what Fabrini did
propose. If was a proposition without
head or tail & would be now
declination with it. If he Fabrini
cables us we will at once that his
proposition is misunderstood he must
not blame us. You will see the
despatches which you get & Enclose
copies of same to Fabrini Bailey &
Fabrini proposition.

Regarding Italy we made a
proposition to them in every
way, negotiations are and would from

any of the moderate guarantees for the fulfilment of the contract. Indeed for the purpose the means could scarcely be procured. That was seen and that there was that must be attended upon the name of the title of the Job in a small hope and under a number of preparation at all now what a course can under the circumstances like us at all a fair way of treating us. Another of reputation of small magnitude and any dignity as well as the members of the firm individually but on a matter of business, I must confess I fail to see any reason for their getting mad because we do not accept any proposition they may please to make in that direction. It appears that Mr Babcock some years ago for foreign to entertain with his business. Another thing you must understand that we are a very difficult thing for me to do a thing to which could a Rhode Islander affirm the most decided objection. There was never for any Canadian Indian Mr Babcock or small magnitude and dignity with the understood ought to be treated entirely my own. You will find that Mr Babcock will have any treaty report

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in all matters relating to English Exchange and in any other country where I am engaged.

Letter of Nov 11th. I received a cable from J. & S. asking me if I would accept a draw of my English Exchange now for fear that you people over there would not accept in regard I was afraid to reply decidedly and therefore cabled him (J. & S.) to see you, making up my mind that I would get you over and Dixon's account upon I will the slightest encouragement. I also asked him what kind of coin which time I have received your letter and have now known the circumstances of affairs. If anyone could do this circumstances I would not rest (J. & S.) any inducement whatever by cause me to show you capital in the act of depositing the money will make money in proportion to his expectations in the original words of the letter he must come to Paris, that is to say, his capital (!) he cannot compass to such an extent as to incapacitate him from making any more money & I should imagine that the Dukes capacity in the above direction will soon be

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entirely exhausted when we pay the Telephone bubble must burst.

Could you would ascertain what Telephone or Telegraph or any other Company I am a director in (Chemical, or otherwise) and could me as I do not to withdraw as I do not propose to be a director of a Company the management of which I have nothing to do with.

As far as my finances are concerned I can get my money from the Deposit & think I can pull through. I never had any intention of selling Englefield and only did so after I received so much. I could never have so much ill will to me as I do of my interest any way. I think I shall be able to pull through here all right provided that our Coy here & Balaclava keep me out with the heavy work & Dynamos I now have on hand. By the time you get this letter I shall have 40 Dynamos complete ready to ship & am turning them out at the rate of 2 a week. I can make as big Dynamo every six days & still keep up to 40 a week. I am

Party into the building of round Armagton Engines & hope to be able to supply a dozen of them a week.

Circulation of Gaumont has increased all the money and stock from the Circular. I think the Bridge he ventures a part of what he receives and that he is keeping the remainder back. Gaumont has not yet this writing received one any explanation of Lepes. He has promised to do so but his letters lead out your statement entirely that he is post poning his retiring day.

Saturday Nov 2nd. Cracker has been employed to make the change but before it was done the subject was carefully examined and it was decided that the Coy should purchase all the Comte Beugnon's Rail at cost and then sell the part back to them for what he would give for them & this arrangement has been consummated the new Coy and new Company & carry all Crackers and we are, now, to supply the Capital them; and in that case this being best for actually to do we can change them at a small expense and then for every effectuate we must be left. Gaumont has paid the Comte

Dear Jan that it is a real improvement if you allow me to use globes from the glass bricks that we had but how to join a thread away at a large expense. A large body of plaster of Paris is so soft so that the thread by it is done away with and it is impossible to hang a lamp from it for just now a thread on the plaster of Paris is to hang it. The rooks I have only much better & cheaper to make. You will notice that Benjamin has put up a wooden peg of wood very high so that they are not to prevent the lamp getting damaged by making the plaster of Paris down to a fine point. Each thing is weighed out accurately the result as always the varnish Previously it was mixed by hand but proved unsatisfactory as we were badly bothered by it. All parts of the plaster of Paris varnish &c are to prevent damage from water. I am not sure that the samples these sent you have been thin coated as only this one as except for your letter & hand the chemicals if you have sold for packets Ray by the Parcel Post you can do Rubber tube off the acid one

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you concerning the laws of the change
have in the view to make this change
Platten of Paris is the only thing
is adapted to the purpose. Every oil lamp
and so good to gather in the same way
& all that is required in a town clear
clean & regular is the proper burning of
the platten reflector. I am sure you
you have noticed the whole good
you will agree in the necessity of
burning the change now). We are
considering all over lamps at an
expense of about 15 each for lamps.
that is not very much.

You must in case the whole
in the people to make you will lamps
to the point that the eye is drawn on the
coming rays that on the point have
a three rays. Our lamps well
must be clearly so as in order to
the lamp glass all shadow but. Please
an explain this to people will otherwise
see the explanation that be made. I send
I hope for at the least and elaborate
and to see the lamps be encouraged.

You know I have not been to the
Lamp Factory lately but I am told
that the average size are coming down
had for coal as low as 4 or 5 shillings
a pound. Gas is not for many

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off his hand & was hoping to get back
Portland information me. to proceed and
the clerk of affairs & went down to the
Dardanelles Saturday before last & on the
Dardanelles were on parade very close to
a Turkish camp & the Kings. I had just
a Turkish cap that would without any
back knocked off & the consequence was
that by Sunday night I could only get him
all right again and the Kings and had
Just 10 p. E. N.F. Camps to give a letter
to each and the candle that had ever
[illegible] got more than 4 p. E. N.F. Camps.
[illegible] Camps taken
[illegible]
[illegible] Camp is no longer and at 4 hours
[illegible] night I still [illegible]. I had not
[illegible] the Ground [illegible] put up
[illegible] & [illegible] which [illegible] already
[illegible]. I have no [illegible] [illegible]
that no [illegible] [illegible] [illegible]
[illegible] again. The [illegible] of the 10 p. E. N.F.
Camps could not [illegible] be [illegible]
[illegible] [illegible]. There we shall [illegible]
10% of the [illegible] Camps now or [illegible]
which [illegible] [illegible] [illegible] to [illegible]
[illegible]. The Ground. I shall [illegible]
[illegible] the Camp Parties and a week [illegible]
not [illegible] a week. I propose to [illegible]

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over fire night on the Bench Holder
Cover Cake it off on the any thing over
it without stopping the machine
the next year then cover holders
with part more to heat the
regular breaks & can relish on that
will be done on the machine without
the pedals, then the regular batch can
be taken off. Spare which you are running
each machine. You will therefore not
have the regular stoppages in by using
this extra batch you can.
Keep your regular batches on flowing
& don't at all times while the machine
are in motion. I have given reasons
today to stop early & drive to your
early to forward. I expect you
will count on supply of batches.
in time for use & celebrate machine
for making. Three batches. I do not
know what the price of the batches
will be any way, it will be quite
cheap.

Below your estimates to your
questions:—

First. The machines will average 75
Lamps but of course will sell
very hot in the summer of course
Tailors but can do 50 or 60 can
be seen for a few months

19.

to have been going on. You have now
all this in a very handy shape
The Bell and Lamp & clip as you
want to take out that all your
bells are light as this is a bad
day when using the machine in
sunshine also as in case of the
bells not being the small machine
will do all the work and it will
be time pulling the lights on at
your ease

Lastly, The price of your machine
complete for 50 lights is 11 Guineas
if all the accessories as cord and
pulleys from the roof to the upper
and the bottom ready up to speed.
Taking off the small machine and
all its fittings and rapid accumulator
will not make the least step to any
material degree as they are in my
light and the pulley and cord should
not be left dirty as the cord would
of the pulley and it should be
provided by a sufficient cover from
dust. If you were ever short
of cord and the best means closed
on the candle stop you will have
to unscrew it and let to make up
for the slackness in. Speed is certain
number of square inches of best

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must have a gear put on a
gear line to work a gear Pinion.
Ibid. If you wish to stop one of the
engines claiming power machines without
opening the Dynamos or cause not
harm the terminations of the Dynamo
and the remaining eight would supply
sufficient to their fans and keep them
running as before in the same
direction as that if you shut off
one your engine will keep on
just the same. Ibid is a little
book that fairly shows all
factors of this other day. How
strange they that made a big
deal about the eight machines
would have to have all the lights
three fans machines & the engines
to do. They would not become bad
overloaded after seven. This fact
that one finds at motors there
being a complete electrical control
which is an equivalent of
resistance. The results considered
in the four machines at one
hour of the clock would not
pass the other eight electrically
only it would tend to make the
belt slip & they were allowed to
do so long. You will remember

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that at Menlo Park we never had any trouble with our engines. All the machines were in excellent order. We run for months without a single stop that could be the fault of the machine or the boiler which would have been because the engineer was careless or the fireman. The engineer is the boss of the engine. He can run it as fast, or as slow as he likes. He can stop it, or start it, reverse the lever or close the throttle valve.

The way you prepare to run your engine is very much like the way you prepare to run a horse. First, see that the engine is mechanically upright from the valves. This is all right proceed your engine gauge will show you how much water you have in the boiler. If it is low you can put in more water by means of the pump. If it is too high you can draw off some of the water by opening the blow off cock. Next see that the fire is not too low. If it is you must put in more coal. If it is too high you must draw the fire. If the engine is

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[illegible]

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Mar 29 - 1

A. C. Flanagan
Utica Marine Ways
Utica N.Y.

Dear Sir

Yours favour of [illegible] Inst. to hand and in reply would say that I have had an Indian boat on the Mail at copy of Van Nostrand's Engineering Magazine in which you can be furnished with details and the Eclectic to [illegible]

I and have charge of large Mill [illegible] and have a good place at Navesink Eclectic Dredge for sale, also one [illegible] Scow Lighter to accommodate the [illegible] and have [illegible] ordinary coal Rivers Propellers.

Yours Truly

Thos A. Edison

Mar 29 - 1

A. C. Carter
Sacramento
Cal.

Dear Sir

Referring to your letter of Mar 19 inst I have to inform you that under the Eclectic and the Eclectic Patent Co. Patents [illegible] [illegible] [illegible] [illegible]

Yours truly

Lewis Lewis
Private Secy

29th Dec 1

My dear Johnson

In continuation of my letter of 23rd inst I beg to state:-

Regarding the regulation of course when two sheets of one dynamo the effect would be scarcely noticeable. The engineer who used regulate good method bringing it up to snuff. Your method of regulating by connecting all the fields in one main line and all the other ends of the fields in multiple and the other end of the regulator to the other main line is cancel the revolution of all the working fields would be three ohms which is equal to about 1½ by four lamps. The resistance will in this case have to have considerable radiating surface. The fault of the regulator which you have might do but it would be better to have them separate and make better contact. I will have sketch figure out the radiating surface & wages of coils you will need & I will get Chas Bergmann on making them & we will ship them as early as possible but if you want to use a regulator before this reaches you you can multiple the coils from one of your

regulator Rod. You can do without the Rod. There ought to be an oval by putting pins in a machine & putting the oval in the main lever between the machine and the lamps & bring the lamps up to it & mark off the oval and of all the pieces so that there is just room to receive the value of a thou for regulating is tremendously increased and the lamps as you approach the center round so you will have the division subdivided into 50 or 100 thou or perhaps 1/4 of a thou — do something like that.

You ask if the coils should be 1/2 of a single machine regulator. No! not. we had one that I think that of the coil of six single machine regulator — that is all the steel from coil multiple wound together & then connected to the rest coils if could so that the whole could act as one bar. Then it would answer for the reason that the present bar does not get hot at all but whether the subdivision is enough it would be difficult to say but will see (Mech) I mean whether it will make too great a difference from one notch to another

I am glad that you may not misunderstand my meaning I shall say suppose we have a coil of 4 turns round it and it is not big enough by multiple winding around it another coil of 4 turns then the resistance would be reduced one half & the current doubled &c &c.

In answer to your second question about regulation, the stoppage of an engine with 4 Dynamos running to supply their own fields would not allow the other fields at all but the proportion of current two in the machine to that in the lamps would be observed and you would therefore have to bring up the fields in the remaining eight

Cannot give you photograph I should like to see you round made of the big Dynamo?

I beg you a thousand pardons Clark! I think I misapprehended what you want to do as I gave the impression that your 4 Dynamos to the engines & your Dynamos to be entirely separate from the remaining ones — each set being entirely separate from the other & having no connection except electrically.

The small engines address to you

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Some time ago we going on acct
Shewing the parties who are making
them not having much facilities. We
shall soon be done these cabinet models
which they demanded to them machine
unnecessary day & night without
stopping one moment. We are going
to build a lot of these engines at
Garden Street

If you can possibly come
immediately on receipt of this
it would be a very thing it is
very much for the interest
to a Engineer shall also mention
your name first that having
of the business should be entered
upon the early early as you
can possibly might so that the drawing
from the point of contact of one
block to the point of contact of the
other block is equal on both sides
of the communicator & the rest when
these things are done we should be
developed in the evening week

On seeing mechanic it will not
do to apply it to a communicator
which has never had it on which
the same has been working & is
not. If the mechanic is applied
in the manner shown to Mr. mine

I believe about to have our
very cold when the commutators is
cold & then when warming it will
keep cold & there will be no sparking
at all. But in case you cannot
use the machine a long time slightly
moisten with oil or electric type
plumbago have been found to be a good
thing for the commutator.

Another thing in this connection
is that one should not let the
movement of the pinion
to give motion to the bobbin. This
smoothes the commutator & wears.
Need will understand how to do
this by having the belt slightly out
of touch.

I suppose you intend to carry
out on every particular the Lapish
Clark business. This is growing
on enormously every day here.
We do not use gas but the Edison
men are rapidly having their
business ruined by the price which
they can sell it for. In the last
ten days their business has come to
a standstill & all the Edison men
have appealed to the Board of
Trade, unless to have a Committee
appointed

The U.S. City of ~~[illegible]~~ Worcester on which two Dynamos and a Hampson Engine were placed still continues to work satisfactorily, without any breakdown.

Very strange to say Mr Clifford who has just returned from Oregon was asked by my Saloon "What has become of those Dynamos that were put on the U.S. Columbia" he replied "They are working perfectly" when upon the Mayor asked if the boat is well lighted throughout with our light "Yes" replied Mr Clifford "they would be perfection, I have never seen such people" the slightest trouble. This whole affair seems to me very funny. I expected the light had been extinguished long ago although I can now remember having sent them about 600 lamps eight months ago.

I have got the nicest thing for the so called Business you ever saw for motorizing when the light go beyond eight or sixteen candles as the case may be. I have been looking for it for a long time I have always felt uneasy not to have had it. It was a far more difficult thing to get than I at first supposed. I've now working "Trains up" down stairs

here. It is a box about 9 inches wide
by 6 inches long & 6 inches thick, provided
with two binding posts & to multiplied
wheel above the line just like a
lamp. Underneath the box is a
vibrating bell. Inside the box is a
long electro-magnet of seventy ohms
resistance & the same current is
70 ohms of coil resistance the total
of which (140 ohms) is equal to a
lamp. The magnet weighs about 20 lbs
the armature about one lb. The armature
is set about an inch away from
the magnet, that a powerful attractive
spring arrangement so that it cannot
vary. The whole thing is on a cast iron
base. The armature lever plays between
2 coils one of which is platinized. The
put this above the line. Say it is
used with a machine running at 100
volts. The retractile spring is so
adjusted so that when the electro-
motive force is brought one volt
higher the current
vibrating bell (which gets its current
from one of the coils in the Box
by shunting) rings. Thus if the electro
motive force increases or in other words

if the lights go above 16 candles the bell rings & it will do it every time. The whole apparatus can be picked around the room & notwithstanding any leakage it will when put up again ring at the proper point. It has brought out in one evening at 65 5th Ave. the terrible inequalities of those Hamper Engines. Now with this machine if we put a Isolated Plant to go with lamps all of the 106 volts we want one of these indicators with it & all we have to do is to be so equal it that it will ring at 107 volts. Then when the bell rings the customer knows he lamps all too high & all he has to do is to move the handle of the Regulator Box & so bring down the candle power & thus stop the ringing. I congratulate myself that this is a pretty good thing for Isolated business & without it we have chaos constantly as all variance with purchasers as to the use of our lamps. Not only is it a good thing for Isolated business but we have come to the conclusion that it is a better standard of electro motive force than a standard battery

I will send you one case soon as arrangements for 105 cal. If you like it you did not have judgement about ordering more, but before I send it before you say anything to anybody about it I must secure the patent in England. So say nothing to anyone until I say so.

I do not understand you got Pierce suppose he was dead against me what was your impression about him & you really think that he thought Hughes microphone worked on a principle to the Carbon Telephone & that after a while he found he was mistaken & that my attack against him was to [illegible] to permit of his acknowledging that he did not at first understand the principle involved. If not what are the facts? We they are I suppose called the fall on this! He is certainly a very active man but he should not make such strong statements about new things as he is compelled to eat too much humble pie afterwards. I wonder how the meal suits his digestion this time.

About competitors referred to on

X

one of your letters the foolishness of forming an alliance with any of them as it would an enormously long subject to deal with & I think you know the Pic & Co about well enough without my giving any explanation.

If we cannot raise enough money in London to float up one ~~electric~~ with the assistance & prestige (?) of Seward I think we had better sell out: so would also if we can get up one station, we shall not want Mr Seward as the station will be the most influential thing in England for our purpose & the man who tries to steal my lamp would never be able to compete with gas at eighty five cents per 1000 ft. If you could get the Gas Companies to stop making gas I should be satisfied!!.

By the way in connection with this I took a report of the London Gas Companies & which I am not an accountant I worked out what would be the cost of 1000 ft of gas not on the hole[n] but made distributed sold and wiped off the books on the exact of completion with the Edison Light deducting

ii/

of one half of their total business.
I forget the exact figures but I fancy
I made it that now their gas costs
them fifty four cents to boil a kettle
of water cost 27 cts of half their
business was taken away. This of course
is very important & would be very
useful to Mr Gabelinis the negotiations
when this question comes up as
people would say that we must
make light for only cents at least
to make anything & compete with the
Gas Companies which would be true if
all our light were sold without taking
any of the Gas Co's customers away
I think there is an analysis published
yearly of the reports of the London
Gas Companies by a man by name
Field I think although I am not
quite sure of the name. You could
get the book at the office of the
Gas Light Journal or Consult
engineers from Mr Kingsbury. For a
small sum of money I think the
same man who makes this
analysis could give the cost
of Gas in London if the output of the
Companies is reduced one fifth one quarter

one third one half & three quarters. This would be very valuable.

I suppose you will have to fix up a good many of our Patent for disclaimers but you will notice that from the time of the Special Settlement up to the present time all our applications have their Specifications exactly like the Penals. And now our Patents are not voluminous but each particular thing is given a Patent by itself. That Platinum Patent where it speaks of getting the air out of the carbon by a vacuum should be carefully handled for any disclaimer if one is necessary. You will notice that my Platinum Patents have the idea of high resistance & multiple wires running through them. You will see one of the Patents has the system patented as a whole. You might get an opinion as to whether we could do this at any rate & the claims of the Patents is new.

About the Paine Battery I do not go very much on this for general Railroad. It appears to me that the practicable way to light Rail Road

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trains would be found to use far as they do on the Penn. R. R. or in case they could have the electric light a small high speed engine with 30 half light Dynamo on an iron box on the front of a locomotive & take steam from the boiler. A two horse power engine could be made to run 1500 revolutions a minute with say 120 or 130 lbs boiler pressure

I think the economy set down in their report is Paloalto economy & not obtainable in practice say 100 batteries in the hands of 20 or 30 different people

Relative the letters as to Patents. We cannot deal with such matters from here. That certainly belongs to your office.

I would entertain a proposition to build a Dynamo of any horse power up to 1000 but I think it would be a mistake for them to have one larger than the one that will be sent from here as a sample. If they want to run changing batteries they could have a Dynamo on each side of a 200 h.p. engine & so set the

dear Sir

I would suppose that you give me the plan you would decide to adopt as to financing the thing there & I would give you my opinion on it better than I can originate a plan here as I do not know the conditions as you do.

Very truly yours
Thos A Edison.

To Mr. Eaton
New York weekly
Fiction
Pictorial Wkly News
Art Interchange
Druggist Circular
Leslie Lady's Magazine
Munroe Fashion Paper
Godeys Magazine
Visite Monthly
Revue de la Mode
To Mrs Sherwood Philada
Art Amateur ?
Le Bijou ?

As Mary the above list of papers must be discontinued.

Yours &c
Thos A Gibson

Geo W. Childs Esq
Public Ledger
Philad Pa.

Dear Sir.

Enclosed you will please find receipt for Communication from Mrs Mary to me as the Executrix of the last will & Testament of Mary Ann Brown in the Estate of Mary. You will also find a receipt from Mrs Edward Brown for Legacy, the completion of which closes my duties as Executrix. You will also discontinue sending the following papers &c.

Yours &c
A. Eaton.

Harpers
Scribner
Builder & Woodworker
Philadelphia Photographer
Manufacturer & Builder
Sel's Gazette

Brauner Para
Rebeiro
Edison

4— 1—

Paul Revere
Boston

Paul Revere
Boston

Dear Sir

Yours of the 2nd inst. is received and in answer to your inquiry as to the price of the Revere Electric Pad I beg to say that the price is $5.00 each.

Yours truly
Paul Revere

Manufacturing Electrician
20 Hanover Street
Boston

2nd Dec

Dec 2 - 1

H. A. Pillet Esq.
Alexandria
La.

My Dear Sir

May Estate
Advance a Note to Mr. Pillet
Drawing even Date, Three Years
Date with One Real Estate
Note be One Years Interest
Secure Mortgage.
Mr. Lawson Agent of Estate.
I Thought it Advisable to
Comply of Note, Which Sir
Am. ~~in the last to be~~
~~to be made~~ as may Later seems
Rather Anxious Case Call

Saml Sarrell
Private Secy

Dec 2 - 1

Wayne A. Pillet
24 Bellum St
City

Dear Sir

Referring to your
Letter of Dec 2nd 81 Patrick Lee
Sues Estate Lawson and Mr
E. Pinnell Drays Sum, Am being
in Confidence, I have to inform
you Lawson Agent of the
Estate Does Not Feel Sure that
Funds be Realized on Acceptable
Note

Yours Truly
Saml Sarrell

Dec 2 1

S. M. Acuna
140 Nassau St
City

Dear Sir

I have written G. C. Ruff today for a final decision as to his election to have signing the papers in case No. 99. As soon as I can hear from him I will return the papers to you.

Yrs.

Dec 2 1

Manuel Gallegos
Estado de Nuevo
Guanajuato Mexico

Dear Sir

Referring to mine of Dec 7 '98 I must say as the case stands to be compelled to go ahead with proceedings of any sort which may result in the introduction of vehicle equipped with pneumatic attachment.

Yrs Truly
M. Acuna
Pres.

2nd Dec 1

Edwd H. Johnson Esq
Manager
Edison Electric Light System
57 Holborn Viaduct
London E.C.

My Dear Sir,

Replying to yours two letters (Nov 27 & 15th) & my acknowledgment thereof of 29th ult Mr Edison requests me to say that as his time is so much occupied it will be impossible for him to give you any formal replies thereto: But he requests me to send the enclosed notes made by him on the various points raised. These notes are for your personal use & he thinks that this will be the best way of dealing with English Patent questions & therefore does not like to take up your request for opinions & general information on a given subject but will supply it to you in this way.

As to Ridwells ~~claims~~ comments on claim 4 of Patent 578 of 1880 enclosed please find argument of Dyer & Wedlake before U.S. Patent Office in U.S. Case 202 which forms part of English Patent.

As to Ridealls comments on claim 27728 of Patent No 8765 of 1880 that point was raised in U.S. Case 227 the patent having been issued without objection. Enclosed please find statement of claims in U.S. Patent. Claim 36 was also patented here without objection in U.S. Case 208 the claims of which are also enclosed.

As to Ridealls comments on claim 2 Patent No 562 of 1881 we also send argument of Dyer & Holman before our Patent office on U.S. Case 254 which points that part of the English Patent

Yours truly

Paul Synnestvedt

Private Secretary

The enclosures referred to go by Express, not mail

6th Dec 1

Edward H. Johnson Esq
Manager
Edison Electric Light System
57 Holborn Viaduct
London E.C.

Dear Sir,

I beg to confirm despatch of following cable

Kant open Siemens royalty [illegible] have written [illegible] searching [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] of subject.

In cabling me please address me "Fiftyseven Beeyouthirty" & do not sign the cable. This is in accordance with the advice I have received from the Cable Co. I shall not sign any cables to you as the Cable Coy state it is unnecessary. The cablegram address "Fiftyseven" should not be used by you in communicating with any other correspondent as I want a private cable address

work can now be done on the Rauch
Lab. (Journal No Patentee)
[illegible] [illegible]
[illegible]
Thos. Edison

6th December /

Above are Mercadier Paris
Papers refg. Chas. European
Patent Medici and continue yours
call on Patent here [illegible]
Edison

6th December /

Refrigerator London
Rauch provisional only calls for
combination coil high resistance with
coil field magnet coil. Use of
coil coil alone is after thought
in final specification. Make them
Medici et cetera offered. Am indifferent
whether or not we excite by separate
field central station plant

6th Feb 1

Messrs S. Bergman & Co
108 Wooster Street

Dear Sirs

Mr Johnson
state that in order to
qualify with English
Inspection all packages
must be stamped with
the name address & nature
of contents that are packed
also the stamps
will you kindly see
to your exchange
for all future shipments
to England

Yours truly
Saml Lowell
&

Mr. Lowell Boston

Are you tied up
with the United States
Company as expected
and for how long

Very truly

415

Dear Sir

Referring to your letter of 22nd inst. I am pleased to say that I have received the following letters which I have duly forwarded to the addressees.

Yours truly

Dear Sir

Referring to your letter of 22nd inst. I am pleased to say that I have received the following letters which I have duly forwarded to the addressees.

Yours truly

6th Dec 1

My Dear Rebecca

I received your letter of 19th ult and was much pleased to hear

that the Copper engraving of Wood Farm the Parsonage and also more Particularly the water colour drawing of a Cottage Residence by you and Mr Ham no more Locks.

Regarding the keeping up of the Communication Books the Trouble was caused by the Postmaster who positively refused to do it unless Each Person Subscribed 5/- a piece for the Books and Carriage. Mr Hall's name was not down, but several Persons have since offered to do it. The Communication Books are very Comfortable and all the Parishioners are pleased with them only Eight or Ten without any Subscription & without Hearing a Church Service for two Months.

Yours truly

J A Edwin.

6th Dec 1

The Edison Lamp Co.
Menlo Park N. J.

Gents

Replying to yours [illegible]
& look but I notice that
you have a debit against
Mr Edison & Pope & that
you give us credit of the
amount (#600) paid the
Edison manufacturing Co. on
account of Last Newark
Property. You will Upton
came here specially to get the
check for the amount from
Mr Edison, & then took it
to Newark to meet the note
you have all the papers
referring to this transaction
including the taken up note
Dont you think you should
put this asset in your

Yours truly
Saml Insull

415

13th December. 1

Chas. Davis Davis

Arrived safely after long voyage and spent one day in explaining matters to Directors and went to Canada on domestic affairs whence I returned today. Found your letters of twenty third twenty eighth and thirtieth. Will receive and hold shares subject your order with pleasure. Will at once attend to other business matters in your letters and table your letter Lockery

Mr. Fairbanks Agt
Illinois Central R.R. Co.
Chicago Ill.

Gentlemen

Enclosed please find receipt for check of $1.00 for advertisement of Pacific Hotel Co. Please send receipt to

Yours truly

Chas. Lockey
Sec. & Treas.

Encl.

Pacific Hotel Co.
Chicago

16th Dec 1

Chas Batchelor Esqr
Paris

Dear Sir,

Referring to cable
cablegram of 12. to discovery of manila
and Chicago Office explaining why
that I have made purchase for your Agency
for Cuba & not for Paris I have now
received your cable accepting them
& showing you are in receipt of this
that you have not got them placed
cable again and I will have a contract
for purchase.

As to your visit to
Switzerland I am sorry my Predecessor
Contract Cooke into. His personal dislike
however is that any Contract with
Reddaway is binding.

You will find on
as to your leaving Director of the
various Companies same duly to have
& also your subsequent cable as
follows:-

Have ordered chairs necessary
for all on Board for few days
(2 by Mail)

If the last vessel in your cable

a Quota would for Captain Cockrill
Light Capt of Europa Staff & can
a deadhead it, otherwise there must
be some mistake in Examination
which we cannot account for
Yours truly
Pierce Galvan

16th Dec 1

Col Geo. E. Gouraud
6 Lombard Street
London E.C.

My Dear Sir

I received your cable as follows
"Oriental Settlement with Indian
"Patents Nil cable September 16th"
Question I replied after due search
"No Carbon Duplicate Patents in
"India. None wanted"
After which you added:
"India. Give me a little more
"Company had official knowledge of
"Inventions. Did not Inventors
"take it out"
I answered back
"Know absolutely nothing about
"Indian Duplicate Patent.
Search has had nothing whatever
to do with Telephone Patents for
India I do not look and all my
Telephone Patents cable you took
out in Chalk Research Patent I cannot
understand how it is possible for
them to be a Carbon Duplicate Patent
for India. You must
Yours truly
Geo A Gouraud

17th Dec 1

James McCrea Esq
Superintendent
Jersey City Depot P. R. R.

Dear Sir

Mr Edison gives a party to some of his friends on Tuesday next 20th inst & would be extremely obliged if you could arrange to have the train leaving Jersey City at 3.45 p.m. stopped at Menlo Park if any of his guests should apply to the conductor to get off at Menlo. He would also like to know if it can be so arranged the 5 o'clock train leaving Menlo Park about 2.30 stopped on order that he could make return & had heard the word of [illegible]

work to return with this & he would very much like also to have a train leaving early & passing through Menlo Park about midnight stopped to take them on.

Trusting you can accommodate us in this matter

I am Dear Sir
Very truly Yours
Samuel Edison

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19th Dec 1

John Jacobs Esq
Room 17
Pedlars Alley

Dear Sir

Before satisfying the agreement with Edwards wish to have a detailed statement of his liabilities under it as he informs that he is responsible for everything up to 1st inst

Yours truly

Saml Samuel

Dec 2nd 1

A. E. Everett
148 Fulton St
City

Dear Sir

Enclosed please find check No. 354 for $100 in full of account see statement of Dec 1 81

Yours truly

Saml Samuel
Private Secretary

20th Jan 1

making an offer of £7500 (£5000 cash & £2500 stock) for our [certain colonial] lines controlled by [illegible] C. The whole thing struck me as a move of [illegible] to get hold of this countries & I refused to make a sacrifice so great. Just find out what you can about it.

Enclosed you will find drawing of lamp as described. Have had it gone over carefully [illegible] at the works & in laying your foundations please follow the pencil corrections as to measurements & not the original figures.

Yours truly

Thos A Edison

I will send you a long letter by next mail.

65 Duane Street
Dec. 20. 1881

Wm. Johnson Esq.
57 Fulton Viaduct
Brooklyn

Dear Sir

I beg to confirm ~~accept~~ of date as follows,
Viz. have received your favor 19th inst. and not exceeding one year from proper studies with three months notice to close the Central Station, for their present use

Central Station of the Grand Trunk $3000 per annum, viz.

Assessment

Damage @ 5000. 200 ft each from 200.	$ 10,000
Boilers @ 2 per 2,0 20	28.000
Stacks	10,000
Piling Foundation Engine, Plant &c. &c.	8.000
Iron Columns Arches	8.000
Excavations	3.000
Gas, Water, Mains	3.000
Station Superintendence	5.000

Wages	10,000
Feeding Operatives during storm	10,000
Waste over Leaks	200,000
Total Loss, Say,	$373,000

Running Expenses per week

Coal	12,000
Gas meter	1,000
Steam	16,000
Water Supply	3,500
Rent	12,000
Insurance	6,000
Repairs	19,800
Depreciation	8,000
Wear & Tear	4,000
Taxes	3,000
Waste	2,000
Total	$86,300

33,000 Lamps 3 hours each, 300 days 5 hrs, 20 hrs in 1485000 hrs at 85c per M. = $126,220. Extra Receipts by Gas 86,300 = Net Profit $39,920

A new 10 per cent on investment.

Extra at $1 = per M. would equal $128,370 giving Profit of $42,200 or new 16 per cent.

The Gas Co now a much like Coal Gas, but it is impossible to estimate many other Incidentals of Operation by the Gas Co as yet.

Mr. Holmes, have sent copy of cable and you can reply to our cable above.

Feltman & Curran, Sept. Dec 15-81

"Can only give my lowest estimate at present consistent in any Italian Lamp for every thousand feet candle power, will be from two dollars twenty five cents to two dollars ninety cents per thousand feet candle power, according to the Italian lamp we may decide adopted"

22nd Dec 1

Messrs Drexel Morgan & Co
8 Broad Street

Gents

I shall be glad if you will please let me have a check for $6000 on account of the new machine for London

Yours truly

T. A Edison

I am directed by Mr Edison to state that he will accept the offer made in your favor of the 22nd inst

29th Dec.

John Michels Esq
Room 13
Dubuque Building
City

Dear Sir

I beg to enclose you agreement duly ratified by Mr Edison on the understanding that with the exception of the usual weekly items the debt payable by Mr Edison after 2nd Feb will not exceed $100.

I am sorry to have given you so much trouble in this matter but now will understand that my action has been governed entirely by my anxiety to please you. Meanwhile endeavour to call on you either today or tomorrow forenoon

Yours truly

[illegible]

2nd Jan 1

Geo. B. Hamilton
City Bank
Room. No.

Dear Sir

[illegible]

Yours truly

Saml Lucas
Secy

29th Dec 1

Dear Mrs Pierce,

I have just received your telegram. I did not see Mr Edison until late last night as when I went down to the works in the morning he was asleep.

He told me to cable last night to Pierce & Bailey as follows

"will endeavour fix up your contract as soon as possible"

so I should hardly think it necessary for you to cable more especially as at present it is impossible for us to cable in the manner indicated in your telegram to me

Yours very truly

Paul Yzer

27th Dec 1

W. N. Hamlin Esq
Fifth Avenue Hotel
City

Dear Sir

Referring to your favour of 26th inst Mr Edison will not be able to get up to the Hotel tonight at 7.30 but if you could manage to take Jos. Bontwell to the Edison Machine Works 104 Goerck Street Mr Edison would be glad. If you cannot go I will be pleased to take Jos Bontwell down. I shall be here all the evening

Yours truly

Samuel Insull

27th Dec 1

Wm Kemp Esq
Newark N.J.

Dear Sir

Please find enclosed check for $35.00 from the Edison Machine Works in account.

Yours truly

Samuel Insull

Dec 28 - 1

Capt Charles H. Lewis
Pilot Boat of Sandy Hook
Staten Island

Dear Sir

Referring to yours of Dec 24 I am instructed by Mr Edison to inform you that he will call and find the exact time he is down town. He would have done so before but has been so busy

Yours truly

Saml Insull
Secy

Dec 28 - 1

Wm A. Hegeman Esq

Dear Sir

Referring to yours of 23d Mr Edison requests me to inform you that he will call and find the exact time he is down town. He would have done so before but has been so busy

Yours truly

Saml Insull
Secy

29th Dec 1

W. A. Patton Esq
Aphea Veluca mining Co
Virginia Nev.

Dear Sir,

The results as to the economies of working by electricity is that the demand is so great for machines that our Directors do not feel inclined to send out any machines simply for an experiment at their expence. I talked to one or two of them about the matter and they remarks "why does not Mackay pay the experiment at his own expence if successful the result would be more profitable to him than to us" As far as I am personally concerned I should like to try it very much for the mere sake of the thing

Yours truly

Thos A Edison

4

is the same resistance as the 18 Candle. So all you have to do is that when you send out a plant you must adjust the Indicating machine at your Works and send it out with it. It is so reliable that we shall use it in the Central Station in the place of an Electric Dynamometer for gauging the volts. Bergmann is making them at $25.00 but we hope to get them much cheaper than that.

We received your cable about the model of Dynamo. These will be sent to you very shortly via Hamburg. You must not take it into France until you have got the proper authorization from the authorities as it is necessary to take very great care that nothing is done to vitiate the patent. The Paris Opera House Dynamo were ordered to be shipped to Puskas & Bailey. If I had done so my patents would have been endangered. I sent them to Geo Batchelor as Exhibition material ~~Exhibition material~~. In ordering stuff from here you must be very careful about this authorization, & even when you have the authority I shall always ship to Hamburg & let you get the

6

[illegible] done at [illegible] end, I am told that anything impaired without the respect attachments which the patent can be taken advantage of by [illegible] Companies and that the architects can not make a different protection application so as to make the patent good again. They cannot legally do so according to French Laws.

We are building a model Device Dynamo for lamps the same as you have at Paris and which was built at Menlo Park. We can send you the working drawings of the Dynamo when we have thoroughly tested it if you desire.

Regarding the large Dynamo we did building next for the Illuminating Co. and could start another one as a model for you but would like to have the Co. own their own and perhaps order. However I think the drawings will be sufficient for you as we have got them absolutely correct so I think you can do just as well with them without explanations from us just as well as with a model Dynamo.

I opened a great battle of many
hours near the Camp Belonging
Upon which got badly wounded regarding
the life of the camps and were made
a cause of each day when the end
King ordered by which we were about
and more enemy shown that the two
per Marie-Paule have an average life
exceeding eight hundred hours and
I am gradually increasing this, and
also considering an optical method great
accuracy I shall undoubtedly
succeed in making 280 shall be camps
12 per hour passed 600 hours life
but do not perhaps this. Place of
action subsequent. I shall also be able
in the course of six or seven
weeks to materially reduce the cost
of the camps so that we can make
some profit on them.
The cost 2000 miles camps
to the Belgian Army to be erected
as Barracks in their telegraph
lines at present four and each.
We have had the Chairs on the
big English machine (for Paul) but
had 1500 camps on it for several days
we have some trouble with the brushes
but I shall get them all right in a
day or two & then shall ship the
day

marked to Forward
the new Magnesium Lamp with
with the Pair Head. The Locomotive
is being built at Soemak &
will be finished in a week &
no. Nagler is laying the track
Yours very truly
Rhodes Edison

Letterbook, LB-010

This letterbook covers the periods April-November 1881, June-July 1884, July 1885, and July-September 1888. Most of the correspondence is by Edison and is in the hand of Samuel Insull or Alfred O. Tate, acting as Edison's secretaries. Most of the letters from the years 1881-1885 concern routine stock transactions of the Electric Tube Company and the Edison Electric Light Company. There are also miscellaneous other routine letters relating to the business of these companies. A few of the letters from 1888 deal with more substantive matters. There are several letters pertaining to the phonograph business and one letter concerning the use of electricity to eliminate unwanted animals. The front cover is marked "1881." The book contains 466 numbered pages and an index; pages 28-466 are blank. Only five pages of letters from 1888 have been filmed.

Drexel Morgan & Co
2.
Dyer Col. Gr. W. 7.15.

C D E F G H I K L M N O P Q R S T U V W Y Z

Edicion Nº 6.

Faber E. P. I Ch. 5.12

E F G H I K L M N O P Q R S T U V W Y Z

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G H I K L M N O P Q R S T U V W Y Z

Johnson Edward H.
S.

A B C D E F G H I J K

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Wright. J. Hord. 10. 11

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feby 21/ 8

Henry Clough Esq Bradford

London 22nd Feby

Dear Sir — In reference to your letter of the 17th inst. I have communicated with the Chairman of the Society desired to see whether for the destruction of dogs instead of the present method of drowning the animals. I simply wanted a few dogs which have to have been drowned so that I might ascertain for you the proper system upon which to carry out your ideas. I appear

appear
to have been mistaken and
must apologize for having
misrepresented you.

Yours very truly

Thos. A. Edison

Sept 8

North American Phonograph Co
10 Broadway
New York

Dear Sirs:

Your Mr Evans spoke to me yesterday about a young man named McConnell whom you have engaged to handle Phonographs and who stated to you that he had gained his experience in this Laboratory in that connection.

Mr McConnell was employed herein the Tasimeter Dept and had no practical experience in the operation of the phonograph. Mr Edison does not consider him competent to take charge of the machines.

I will make a proposition to you on Monday which will insure you always getting experienced and capable men to act as experts, if you desire to take advantage of it.

Yours truly

Secretary

Sept 10th

Theo Waterhouse Esq
No 1 New Court Carey St Lincolns Inn
London W.C. England

Chip dear Sir: Your letter 18th ult. has reached me and I have received Mr Tomlinson's note, with relation to your proposed connection with the Graphophone interests.
Under the circumstances, as explained by yourself and Mr Tomlinson, I can discover no impropriety in your undertaking to act for the Graphophone people; more especially as my arrangement with regard to the Phonograph in Europe renders me powerless to offer you any inducement to alter your decision.
I desire to take this opportunity

to acknowledge my appreciation
of the assistance rendered me by
yourself and upon from
to my interests in your country.

Yours very truly,

Letterbook, LB-011

This letterbook covers the period January-March 1882. Many of the letters are by Edison. There is also correspondence by Samuel Insull and Richard N. Dyer. Most of Edison's correspondence is in the the hand of Insull or Dyer, acting as Edison's secretary. The correspondence relates primarily to electric lighting in Europe. Included are orders for lamps, dynamos, and electrical distribution equipment for the United Kingdom and France, along with letters about the terms of shipping and payment. Other correspondence deals with the Holborn Viaduct generating station in London, patent interferences in the United Kingdom and Germany, and contracts regarding the electric light and telephone in Europe and the Far East. Among the recipients are Charles Batchelor, S. Bergmann & Co., George E. Gouraud, Edward H. Johnson, and Lemuel W. Serrell. The front cover is marked "1882." The spine is labeled "1882" and is stamped "Edison Letters N.Y. No. 3." The book contains 502 numbered pages and an index. Approximately 50 percent of the book has been filmed.

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4 A. 9-3

fent time to satisfy my curiosity by writing.

We are having the whistle made for your telephones. Smith has sent you some more of these Instructions [illegible]

I believe in selling lamps as soon you can in large quantities as standard in apparatus but you must be careful not to sell them for foreign use as such I have not got patents & have contracts in my interests such as my contracts with Grenard.

Patents. In my subsequent patent as to getting the air out of the carbon you must read the claims by the specification & when they are read in that light I do not see that they are too broad. You say you cannot bring your patent lawyers to the opinion that the claim for a filament of carbon of high resistance is good. Can you bring them to the point of rendering an opinion as to whether a filamentary carbon for giving light by incandescence placed in a sealed glass chamber from which the air has been exhausted

E. H. Johnson

X

under his fair claim. By Cunning not high resistance that is to say disclaiming high resistance you would then have a filament of carbon in connection with the use of the claim. In the patent for a paper carbon filed same time in December you will notice that I stated that the carbon is flexible. Now there is one point about the English law that I am not certain about. I understand that it is not necessary to make claims that you are entitled to everything in the specification so long as it conforms to the law namely is new & novel & useful. Swan's patent has no claims. If this is so then the paper carbon patent would be valid to cover a flexible carbon. You say that the experts say that the filament of carbon of high resistance is anticipated in detail in so many inventions that there is nothing of the degree pure & simple to to lay hold of. Now I should like to know where a filament of carbon of high or low resistance

has ever been used before my patent?
I would also like to know whether
a filament of carbon of high resistance
has been used. Also whether a
filament of carbon has been used in
high vacuo in a chamber made
entirely of glass through which
platinum wires are sealed. I should
also like to know if a claim taken
not in its broad sense but as a
combination claim is not good.
Combination claims are good even
if all the parts are old. You must
notice that our claim is really
a combination claim. I think
abandoning all else and seeking
only to make good a claim for
carbonized fibre is a mistake.
While carbonized fibre is the best one
could probably hold it would let too
many people in.

Memo. Be careful and don't disclaim
the coil carbon for
diminishing the radiating
surface as it is on this
link that the high resistance
lamp will be obtained. That also
can be held against everybody

E. N. J. 6

I think that there is no immediate reason why we should not proceed with the case as we have hitherto the more thoroughly the experts will get to understand our witness and the better the patents will appear You know that Batty & Dickinson took out at first that we could not claim a difference in degree but after a while when they became more familiar with the accurate principles this change in degree their operations introduced and we now know that there is not a shadow of a doubt but what that the Crossed veil will clear the patent. What I want to find out now and by what means our patent was a filamentary one can you give light by electricity incandescence ~~and~~ in a glass chamber from which the air has been exhausted" used. You remember that if no difference can be found between any process did this depend on that & was consequently the first produced it and it is acknowledged

to be a useful and great advance in the art of electric lighting then I would be entitled to it. That is to say that I am entitled to a lamp for giving light by incandescence consisting of a filament of carbon in high vacuo maintained under conditions that said vacuo is stable. Filament of carbon might have been produced before, vacuum have been produced before but who has used an combined in a vacuum a filament of carbon and I think I do. The numbered Patent and the Edison Carbon is clear and explicit and not complicated. If you people are afraid of the words high vacuum why not make the claim this:—

An Electric lamp for giving light by incandescence consisting of a filament of carbon

The second, third, & fourth claims to be the same.

If this Patent will not hold as now amended then it seems to me to be absolutely useless & take out Edison patents.

I should like a copy of the second

Patent wherein paper carbon is spoken of and claimed is not good as it is burdened negatively by the patent of Lowe in speaking of fibrous material such as paper shred wood pulp &c you would probably have to disclaim claim /2. The third claim ought to be good and is important on account of the broadened ends. The fourth claim does not amount to anything. The second claim might be good in so much as it describes a method of carbonizing filaments in a definite shape. You are certainly wrong about this first claim however. You would be an excessively narrow view of the matter and could be very readily got around. You can treat the process as applies to Swan because quasi property when speaking of Swan patent. It may be very clear to you but it is not clear to me why getting rid of carbon by means of Electrical Incandescence in vacuo as shown open to the public by the action of a subsequent inventor when another

Q. No 9.

Inventor has chosen it and claimed it in a Patent granted under this Act and understand that the Grant of Patent in which a process is described or claimed by any official Examiner or Public Department and enrolled. Q. Do it is the reason of recent publications of some other inventor as this?

Ans. Yes that I clearly set forth the date of such previous invention in Patent No 5. Hence is Patent No 4 good? Q. Do will not that Patent have a right protection same?

Regarding taking out these Patents Can know that up to June 1856 Council prepared these Patents and they were sent to Brevets of Inventions who filed them just as they were received from Council, after that Patents prepared the Patents were sent them to Council who merely signed them and then forwarded them to Brevets of Inventions who filed them in Council in the name prescribed by

June 30 x Excellent after. You cannot
conceive what anxiety the endeavour
to obtain of application for patent
that we have got the patent and
now good kind of shape it would
have taken the time of one man
constantly. It would have had
to have been done on this side before
I sail to see how an impeached application
from this side could have been
perfected by solicitors on the other
side who had no knowledge of
the system. Accordingly he arranged all
things and procured the application
through their agency when you may
depend. The impeachment however
can be expected on the old grounds
merchant a man is hired to attend
expressly by that Congress.

I can you tell me how to make
an oath of platinum wire of a
certain size and greater tenacity
than it naturally is. Do not the
mechanic of a definite process
platinum have advantage. The same
Mr Lee had said one claim, a
platinum loop of wire of high

resistance; however it is a very easy matter to make an oven of canvas, some of any kind of resistance you want by selecting out a carbonizing material whose cells are either large or small hence it is possible to have a canvas or a carbon with loops of high resistance & merely make this little note just as it comes to my mind as you may possibly be able to make use of the fact. When you speak of my previous patents detailing the necessity of high resistance you are correct, the method however adopted for obtaining the high resistance was not by specifically increasing the resistance of the material as conducted employed but by employing greater length of it, while in the carbon patent the claim is for a peculiar kind of carbon that is by a peculiar treatment of carbon aggregated together in such a manner that it shall have high resistance.

You say that you cannot patent for the application of the process not being

E. H. D. 17

as he significantly mentioned to metals conductors &c &c." Lack of this relation against as to the necessity of making claims in an English Patent.

I wrote to Mr Fabbri about engaging Young Dyson to take charge exclusively to go into the whole ground of English Patents & strongly advise that no action about declaiming any patents before we have gone into the whole evidences received with hasty action we might declaim some things which have a value & which it might be afterwards shown it is not necessary for actual to declaim.

I do not think my last patent claim will be an infringement of the Siemens machine as his patent & patent are worded cannot prevent each it as worded. I cannot perceive see how Siemens in view of Gramme patent can bring an action against any party until he has declared certain things shown by Pacinotti & Gramme — Siemens using the Gramme & Pacinotti method of winding and connecting and taking off the current

all the difference between the Seaming-
-machine & winding & Seaming & Reeling
especially Seaming in that the winding
with the end of the machine and
Seaming part of it, entirely — the part
winding — is the same. All that Seaming
can claim would be the end winding
and as this was done in the old
machine I do not see where the invention
comes in. It is merely employing the
Seaming winding on the old machine
face to the public.

It might be a good idea to have
an expert to report favourably on said
patents bringing up all the arguments he can
to uphold the patents and patentees
in order that they may be made advance
the understanding of the whole matter
better.

I think you could send them
off by the Company all right providing
you arranged to keep them at the
proper candle power, and not allow
them to go above that as you keep
them all colleen candles. Company you
to keep after will have very long hours
as you have to do it to keep them down

to their proper candle power and gas will have no material trouble from breaking of carbons the first few nights. After all the weak lamps will be shaken out & then gas breakages will diminish and gradually get down to a mere nothing.

I see in the contract submitted by Mr Rabbit that we are to compete with gas at the same price giving an equal amount of light. This will be all right as I have not the slightest doubt but that ten candles per 5 ft burners is the average of London gas. most consumers in London gas give it lower. I have my estimate on the ten candle burner being equivalent of a 5 ft London gas in actual practice. You know I have always stated that we can compete with gas and that our only difficult place was London & that it is essential in competing that we should have a respectable number of stations because it cannot be expected that with a single station we can go and compete in places only where so much generally

Ex H 9
15

expected would have to be charged to so small an output. My figures are for a dynamo as stations &c erected & does not follow that one would have to compete on price. It might be possible that even as stations could pay, in localities where the quality and quantity of the light created have a commercial value of fifteen or twenty candles that of gas. Of course I have said nothing about places where a considerable factor in helping one to compete.

In your Crystal Palace Exhibition have a good man to attend to the commutators, keeping the commutators clean, the ends of the brushes in nice order, setting them accurately, using light pressure on the brushes &c and you will never have trouble from sparks. You should employ and select known handy men & pay them good wages & thus train up a few hands of really clever men when they are starting exhibitions

G. A. D
1 6

stopping the machine he found there
was much holders of great value
especially where the dam received
machine fan of a much gets
spanking dc the dam to do is
to put a the extra brush holder
take the other one off and fit it back
put back again.

the have no trouble in gradually
increasing the dynamo and no clockwise
the belt. the always do it at home
and reach had any trouble. If it is
done gently it will not fly round
and do mischief are you imagine
Faction clutches are very unreliable
things without you have a good no
of course all your regulating
resistances have gone long ago.

I do not know what your
reason is for me to keep your
candle power constant you change
the Resistance at any rate. and
in case you a little indication for
you indicating when the candle
power exceeds sixteen candles
which you can see but I fear
it will not reach you in time

E. H. D
17

& you will have to use a galvanometer or something else which Hammer can fix up for you.

Of course you never must open a field magnet with a machine running ~~when~~ the armature is connected with the main wires as it would then burn the armature up. The armature should always be open first. By taking off the field the armature would not run but as a motor because it has nothing to work against and it then acts as a dead shoe exactly but if you take off the belt and leave the armature & field undisturbed it will then act as a motor.

We will try & get a photograph taken of your new machine.

I do not look with favour upon using gas engines, if it can possibly be avoided as it will prove a source of weakness to prolong the fight with the gas companies. Electric Accumulators, Tilings engines are about quite necessary, cheap, reliable, and powerful in every way.

About the commutator brushes

an good English machine of steel
can be taken with the two battery and
the bearers are ground perfectly and
the balls are taken off the cups of
the cycles when they are
cannot with the ramification of
cycles have no chattering getting hot
of the spanking. We see the same
with two lights when speaking a
more spark than there was in
ordinary [illegible] machine. The [illegible]
I have also run good as [illegible]
with the spark of two to more than
of two of used to make in the second
that the [illegible] igniting spark be taken
one hand and a stick on the ordinary
more than the spark, there was more
than three sparking, where [illegible]
the diminution of the internal resistance
that we have in the machine [illegible]
better. You cannot always [illegible]
things than nothing and [illegible]
[illegible] light on the [illegible]
[illegible] me about it and I do not
propose to take off the [illegible] until we
take the [illegible] carry [illegible]
cycle, and altogether [illegible]

6.Nov 19

boiler and engine and we are only
enabled to keep about four months
before the steam gets down so that
the engine alone [illegible] right down but
during these five minutes the commutator
brushes are dirty and if I can take
this current off nicely you certainly
will not have, indeed [illegible] more
especially as my impression is that
your engine will not run more
gas or not so as a regular thing.
Mr Main was here when your machine
was run for 7/8 hours and allowed
the commutator and the elements
to cool that there was not the
slightest difficulty in taking the current
off. We put a safety catch in every
house and in the trenching of putting
them both sides of the streets so the
boys will make [illegible] and then easily
clean the ends of gas pipes and re-
cover them. We had a row the other
day when the gas began to escape
somewhere in the building. The pressure
was got connected with the gas pipes
and in another case the explosive mix

L.H.J.
291

got connected and it so happened there was no safety catch on the negative wire at one place on a safety valve and the positive wire at another place. We had a bad explosion and burnt the moulding.

The New York Board of Underwriters have practically adopted new rules I will send you a copy as soon as they are published.

I feel convinced that the wires of wires used to run down to the lamps should be increased once and above what has been and practiced. with the present wires they being small when they came in contact the arc so quickly than the safety catch and the wires ignited, while if it was larger so to speak conductivity of heat would give the safety catch time to fuse and thus arc & fusing of the copper would be avoided. In fact I believe the wires that run to the lamps on down a chandelier or in places where there is a chance of a arc should be very large in fact it might be larger

End.

than the ones which are led down from the mains. You will probably see my point.

Our first electromotive force regulator showed the fall of the electromotive force by ringing another bell but as it required a pretty fine adjustment we abandoned it. The main object of this endeavour is to present quarrelling with our customers about the life of the lamps for the use of this instrument, for we would as life of lamps will be found more than true; whereas our present customers are of course liable and would and do, undoubtedly burn the lamps at a very high candle power.

I have read the Lecture of Mr Preece and think that, on [illegible] of the prevalence of English Railroads & Societies to advance great great independence of mind and does himself great credit & expresses himself so clearly and decided & expresses considering his earlier utterances on the subject of Incandescent Lighting. I will

E. N. 220

send you in a day or two an autograph letter addressed to Jesse which you must see your deceased aunt believed to him.

Do not fail to remember that I have all system of general duties any one of which if maintained will give us the commercial monopoly of the general business and the patents which are now coming out and which will come out in the course of the next year will be found to impose on maintaining the monopoly as the patents which have been already issued.

I noticed that the Telegraphic Journal gave us a very handsome notice of I do not remember anything in the Electricians.

I have read the two last books by Babbage and Jevons. Impressed. Details well acquainted although but nothing material.

4th Jan 1880 (2)

I have definitely attempted to have

A. & R. Dyer go through and Enclose Patent
make a thorough analysis for use in
disclaiming also for use in taking out
future Patents

Notice that in the Patent of
15th Dec 1879 that on the first paragraph
in the Provisional the following words
occur. "In a further application made
"by me for letters patent in Great Britain
"an improvement in Electric Lamps
"in which Platinum or platinoid fila-
"ments or carbons is enclosed in a glass bulb
"and the atmosphere removed as
"nearly as possible and the carbon
"is brought to incandescence by an
"electric current I claim the lamp
What does this mean? Does it
mean that the lamp is not formed
until the carbon has been brought
to incandescence or not?

I have been thinking over the
question of high resistance and
make a few more notes as follows
When we say "a filament of
carbon of high resistance" it does
not at first sight a question of degree
of resistance that the words high

24
Ex. D.

resistance also indicative of the quality of the carbon. In the specification & specs of carbonizing vegetable matter and all suitable matter to form of cells a filament of this kind of carbon will necessarily be of high resistance and the more high resistance will in their turn be indicative of the quality of the carbon. If we were to make a filament artificially it would be of low resistance hence the words "high resistance" mean a filament of carbon obtained in a natural state whereby it will offer high resistance & yet it is not altogether a question of degree - that might be left out - but a question of nature. You will notice, if I remember rightly, in the specification that I state that carbon produced from organized matter has the essential quality of high resistance. If we were to use all kinds of carbon one might use low resistance carbon whereas the others might be high resistance carbon yet both might be filaments

D. C. D.

and both of the same Cuyc and Lenpth, hence the words "Carbon of high resistance" would be indicative of special natural quality of the carbon and it is this special quality of the carbon which I desire to claim that is to say high resistance carbon. Do you twig? I gave this simply as an idea. You may be able to say something of it.

I cannot understand how English Patent Business— Evans Patents you say are no good; Lane Fox patents are no good; Bell Telephone patents no good; the United Telephone Co (judging from its proxy of communication) do not seem to think any Telephone patents are any of them good— Really it would not seem to matter much whether the applications were dismissed by American or English Lawyers as fast I am beginning to think that the only advantage gained by taking out Patents at all is that you have the privilege of paying heavy fees to the British Govern- & have the honor of receiving a piece of parchment the latter piece of which would seem to be the most useful little

2-6
E. P. D.

more than the papers if it is printed
out — if this is not the case well &
then some of your lawyers are very
wide of the marks in the opinions
they give

Very truly Yours
Thos A Edison

X

Dec 1
1882.

J. P. Bergmann & Co
19 Gardner St

Gentlemen

Mrs Rachelle calls
to Return
Pell Bergmann & Co
Rent 200 Fourteenth
Bond 200 Fourteenth
Bond Loan Company.
until I did receive
this notice & notify me
when this is ready for
shipment & until then
give said shipping
directions

Yours truly
Thos A Edison
Pres

28

4th Jan 1

Col Geo E. Gouraud
London

Dear Sir,

Referring to your letter of 14th December I beg to state that I have sent all that I deem it to as to Glasgow Royalties & United States accounts. My opinion on these points are most decided but I see no object in going into the matter again in detail as I would be only repeating what I have already written you

Yours very truly

Thos A Edison

4th Jan 2

Rec'd Geo D. Bankes
Philadelphia

My Dear Sir

I have to day sent you by express one pkg containing the evidence and exhibits in the telephone case three copies of our Book of Instructions and several copies of the Translation of Du Moncel's article. I have also sent you another pkg containing portrait of Mr Edison

Very truly Yours

Saml Insull

32

Orange 6th 2

Edison Lamp Co
Harrison Ave
Harrison
New Jersey

Gentn,

Please prepare a complete set of Drawings for Models of Electric Pens & send them to me as early as possible. I want them to send to Mr Batchelor

Yours truly
Thos A Edison

N. H. Davis Esq
U. S. Electric Light Dept
Cor Chestnut & 12th Sts
Philada
Pa.

Dear Sir

Referring to note due S. S. White Estate for $634.00 I shall be glad to know if you would renew the note at 6% for a further term of four months & advise me for this period

Yours Very Truly
Thos A. Edison
NJ.

37.

7th Jan 2

M. Pino Rogan
Menlo Park
New Jersey

Dear Sir

Mrs Johnson wants
some checks for the telephone
sent to Paris & which he
has now at the Crystal
Palace London.

Please make some
of each kind – for Exhibition
Documents and also
for the small receivers.
If you had no sleeves
Reichmann & Co can supply
them. They have some of
each kind on hand

Yours truly

Saml Sweet

Send per shipping
Instructions later

7th Jan 2

E. T. Fabbri Esq
8 Broad Street
City

Rev Dear Sir

I gave you the enclosed card one
Friday night

I give you below
copy of reply I sent at
your request

Yours truly

Saml Sweet

6th Jan 1882

Peterseven London

Ship from New
Edison. Cannot
approve Exchange Cancel
Fabbri

7th Jan 2

Dear Mr Edison

Yours of 6th inst came duly to hand and the Diploma has arrived this morning with the official letter from the Department.

It is highly gratifying that my Exhibit at the Paris Electrical Exhibition should have received such a signal recognition and will make it that my friends should take such a kindly interest in the matter

Yours very truly

Thos A Edison

7th Jan 2

Mountain Lake Co
18 East 18th Street
City

Mssrs Dear Sirs

I duly received the set of Emerson books which you were good enough to send me. I am returning them with very glad pleasure

I should have acknowledged them long ere this but the package came without anything to show who sent them and it was only by accident that some days after their receipt my attention was called to them

Very truly Yours

Thos A Edison

Jany 9th 2.

The Honorable Frank J. Folsingham
Secretary of State
Washington
D. C.

Sir

I beg to acknowledge receipt of your returned favor of the 7th inst. enclosing Diploma of Officer of the Legion of Honor awarded to me by the French Government on account of my exhibit at the late International Exhibition of Electricity at Paris.
The package containing the decoration has not yet come to hand.

I am Sir
Your Obedient Servant

Thomas A Edison

Sang 7- 2

To
The Minister of Post and Telegraphs
Paris
France

Sir

I have the pleasure to acknowledge the receipt of your esteemed letter of the 17th December 1881 announcing that I have been appointed an Officer of the National Order of the Legion of Honor, and I have been requested through our Secretary of State the Diplomas and Insignia of the Order

I beg to thank you for your extreme courtesy in sending me a Notification of the very great honor awarded me

I am Sir
Your Obedient Servant

Thomas A Edison.

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9th June 76

Messrs Edison & Co
Menlo Park N.J.

Gentlemen

You will please
ship on receiving this
one gross daily reports
to date at 65 Cortlandt
Cortlandt St
T.A. Edison
Pres

Messrs Edison & Co
Menlo Park N.J.

June 9 2

Dear Sirs

You will please
ship on receiving this
one gross daily reports
to date at 65 Cortlandt
Cortlandt St
T.A. Edison
Pres

Jose D Machado Esq
care of City Bank
London

My Dear Sir,

I did not care to send the Telephone Assignments until I received your letter instructing me to do so & I thought it as well to cable you when they were ready not knowing whether you had left London

I now enclose you the assignments for Bolivia the other two (Peru and Ecuador) by next steamer as at this writing I have not received them back from the respective Consuls for their non executions

Yours truly

Thos A Edison

Col. Geo. E. Lawson
6 Lowland St
London, E.C.
England

Dear Sir

Referring to your of Dec 22.81 I beg to enclose herewith our Edison Meeting Journal for assignments of patents issued to Edison

Yours truly
Saml Duncan
Assistant

Office of Orders
Paris
Ont.

Dear Sir

Referring to your letter of Dec 26.81 Mr Edison desires me to write you that he has no difficulty whatever in obtaining a patent right for Canada for all Phonetic inventions.

Yours truly
A Swaine
Ass Sec

In a former letter we note an Arc Lamp and an Incandescent Lamp, but have not ascertained to which of the following cases they belong. Please advise us

Edison Electric Light Co
65 Fifth Avenue
New York

Jany 9– 2

F. R. Upton
Menlo Park
N.J.

Dear Sir

Referring to yours of Jany 2. Mr. Edison says he is making 125 Light machine with Lenox Armature and one field magnet to do the business

Yours Truly
S. Insull
Private Secretary

Enclosed you will please find Letter of Mr. Nordmann, please return the letter with your views upon the subject.

No.

Jany 9– 2

Adam Sandel Esq.
Balclutha P.O. Dunedin
New Zealand

Dear Sir

Referring to your favor of Dec 29 81 Mr. Edison says his time is so fully occupied that he cannot look into the matter but has referred your letter to the Editor of the Scientific American suggesting that he draw attention to the subject in that paper.

Yours Truly
S. Insull
Private Sec. to

16th Jan
10th Jan

Geo. W. Vaux Esq
3 Pine Court
Cstp

My Dear Sir

I return you herewith notes signed by Mr Edwin. It is quite impossible for him to be at the meeting as he has previous engagements to keep. If I can accidentally call on my way down I will do so

Yours truly

Saml Sweet

Please to Return

Alcorn & Pugsley 7 C.
198 Market Street
Cte

Dear Sirs Please pay to the order of Messrs Harper, Bros. the sum of Eighty dollars Value received

E. P. Sprowle

Sum received	9 12
Pd by	9 14
Clerk	9 16

Pd by cash received Messrs Harper Bros

Please to Return

Chas. Mackay Esq.
Montreal

Jany 10 - 2

Geo. N. Bliss Esq.
Room 3, 123 LaSalle St
Chicago Ill

Dear Sir

Referring to yours of Jany 3-82 Wm. Eaton dec'd on behalf of the Company have made an arrangement with General Hazen, & does not want the Scotch Premises & Chicago, but the Eastern & General distribution Premises

Yours Truly
S. Grant
Per Jay. Gow.

Edwd. A. Johnson Esq
Edwd. Austin, Executor
57 Portland Road
London W.

Dear Sir

Referring to your
of 24th ult. the Patent of
Penn Lighting & Heating
(England) of 1877 granted
to Ferdinand Henry
& Frederick Wm
Bernard Mc
Great Britain &
in Force &
& been &
Patent that
for & attached to
Envelope
Secretary Company
Mail, & me
envelope
for
&

60.

Jany 10- 2

Thos A Edison
Menlo Park N.J.

Dear Sir

I have to day drawn a draft to the order of Chas Batchelor for Three hundred & 00/100 Dollars at sight, running against Gold Bills issued in the fall of 1879. The loan has been charged to Menlo Park Bills and you will please add it to your early statement to the 60 days ending

Yours truly

Paul Jones

Jany 10- 2

Thos A Edison
Esq
Menlo Park N.J.

Dear Sir

I receive your favour requesting me to draw and consider of your Engineer Batchelor,
Draft satisfactorily to accept and pay

Yours Very Truly

Thos A Edison

The assignment law
Bolivia was duly granted

11th Jan 8

E. P. Fabbri Esq
3 Broad Street
City

My Dear Sir

I enclose you herewith copy of the letter addressed to Mr Johnson re Coal & Central Station & purchase Work in London on the Federal Distribution Business

Mr Johnson called today "Get Knock out if possible "Ship not later than "middle of next week "Fabbri's cable receiving "our attention"

Yours very truly

Saml Insull

12th Jan 8

E. P. Fabbri Esq
3 Broad Street
City

My Dear Sir

Mr Johnson's cable of A.M. with a request that we should notify you that he ran last night 200 lamps with perfect success and that the noise and vibration was not observed in the office

He requests that the second Dynamo be immediately shipped

Yours very truly

Saml Insull

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D. W. Peters
care of A. B. Stinson Esq.
18 Wall St
City

Dear Sir

Yours of Jan. 22 82 Mr. Edison desires me to reply that he is too much engaged in completing his own exhibition at this time.

Yours truly

Samuel Insull
Secy

13th January 2

Wm Chapman Esq
120 Liberty Street
City

My Dear Sir

Referring to yours of 11th inst I think I can get the Policies should be got back as soon as possible and that meantime we should have a formal acceptance from us of a fire insurance effected by Mr Peale at Pascagoula but not having them would cause considerable trouble

Could you call here to-morrow morning. I want to see you about and settle matters which are waiting

Yours truly

Saml Swartwout

January 13 2

Geo. K. Scott
Co. Warren & Montgomery Sts
Jersey City
N.J.

Dear Sir

Referring to yours of [illegible] inst. we beg to say that you are allowed 30 days grace by Salvadge, and I am so much occupied that I am afraid to refer to your statement to any but my own matters

Yours truly

Thos A Edison

This is 1881 Francis Jehl
dated Feb. 1882 see p. 91

Living Room Jamestown
16th December 1881 (2)

My dear Edison

We were glad to hear from
Sapeer that you would pass
Christmas with your whole family
at general Lee's & you wish it may
be pleasant and the same to you
here. We are all busy at work
from Sunrise by setting them also busy
until sunset the longest nights
will give you more than 16 candles
and the highest will give more than
sixteen candles but the average will
be not about 16 candles.

Now the way we get these
Candelabra is that they make
us estimate what we are paid!

We are now building
and for a depletion in the
Jamestown on the manner
with other Manufacturers

8 2

a certain being the standard value
point of 10 degrees upon the
magnetic needle call 107. Then we
adjust the spring on the magnet
so that it will just swing, decreasing
the scale-from 107 to 106 which
will cause it to stop swinging until
pulling the scale back to 107 will
cause it to swing again. Everything
as then tightened and it is supposed
that it will always be standard
and so far we have had no
reason to doubt its reliability
four camps, which we call Hornes
rock and 106-7-8 rock but the
standard for ascertaining acres
at the Yankee Fork country is obtained
by Copper Appeal and not with
standard valley rock as Nevada
ores and between the standard
valley and the Yankee Fork standard
there will be a difference of four
feet several camps. For instance if

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Mr. Mc Baker to Col. Cooke Camp
Near Fort Leavenworth Sept 13th
1847 to 11 Candles one head of
Cattle from his Contractor which
he has Standardized by two Standard
Balleys the one 11 Gallons the other
five Gallons each to Correspond
to the Camp Cup Standard
in the Department. We should buy
several Camp Cups also after the other
Standard Pails and Buckets Different
between the Camp Cups mentioned
Have obtained from the Standard
Balleys. For instance the Mess Pans
that the Camp Cups Camps made
100 each would Hold 100 Gallons
but measured and noted Then he can
readily see the Endeavors. but at
Same time a Standard Balley to
go by to test other Vessels
Indeliberate upon Camp Cup Standard Vessels
and the Camp Cup Standard Vessels
as which I have explained above

94

when you get there have Hammock
put and if convenient carry the
same until to get them to 107
(Camp to Mandaan) and then if the
bell does not ring you will know
the Indicator has got out of
adjustment in course of transit
Have pay particular attention to
this and report fully on the manner
in which the Indicator operates.

The Rear End Indicator made
in which the bell rang when the
candle passed round it (or the candle
i.e. when the wick and reduced) beside
weights on each end of candle
passed. But we do not propose to
use this as the 2 ozs of lead in this
Indicator is too much and interferes
as the life of the lamps by keeping
them at about 60 candles. The parties
who use the lamps must be very apt
to run them up and down as provided

to get the most light and volt would be quite an unnecessary refinement to use this double indicator as it requires [illegible] is [illegible] and might [illegible] the [illegible] result and [illegible] a partial result [illegible] much better in practice.

The indicator is connected up right across the line in multiple and the same as a lamp. If connected across the line at the machine it will [illegible] the candle power of the lamp at the station and the lamps at the other end of the ~~main~~ line will be diminished just in proportion to the loss of energy upon said conductors. Perhaps you may place it in about the center of the line but we prefer to place it at the machine to be on the safe side. Of course when the belt [illegible] all that is required is to touch the Resistance Box handle to throw in resistance in the field.

16

which will carry down the electromotive power and the bell will cease. Then should the down stroke of the lever be made to bring the magnet which is attached to the end of the lever into proximity with the pole of the magnet.

The case now has a machine as B's lamp will now have to be in the closed circuit the former being placed between that position and which the bell is sounded. Then the lever is made to be in contact with B's machine the movement of the magnet is the same as that of a B lamp and the movement of the former when B's lamp is free together with the down stroke of the B's lamp. Here by short circuiting the current from obtain

82

a "B" troop Indiana.

In our Indiana business we do not use camps of any size except that for our horses and camps of cavalry the same color. Have the Indiana horses very simple.

Have got it by so getting along well with the native business. Back to Texas any time after Jan 1st 94.

Charlie Rogers left to start the Indiana with big outfit in camp in Cincinnati yesterday one off and if you put it in again it will stop.

Have packed a new trunk (1.15 a.m.) that when Sam comes I'll see Mr. Thomas and have Diamond bring back mine and started. We have been running 940 to A.E.&P. Have Brother and children

Very truly Yours

Thos. O. Dain

15th Lancy 2

Letter R. Stevenson Esq
Edinburgh
Baron Cockburn Light Castle
per Colonel Leonard Lamb R. E. Esq.
Cape Coast Castle
Dated Castle 29th December 1821.

Sir In the Year that the Commissioners Revised the Regulations of your Lighthouses it was the Intention that all your Lights should be exhibited from Fixed Reflectors the Dynamometer was to be applied round the Axis of the Machine and was intended to measure that Power which was necessary to turn the Machine, & was adapted to make a Comparison between the Resistance of the Machine you will get this by the Inclined Axis of the Frame

You will recollect Sir in stating that in all the main Practical (as Past the Mechanical Readers) in the Commercial Establishment of our Country the Light Towers Lanterns &c. The next Point is the general Construction Dock Lantern Proceeding this Fig is a Plan Rest the Frame &c as not Represented by the Inclined Position This Section the Lantern Dynamometer Machine employed & Lantern in Perspective to

X

K 3

§ 11.

about the [piece] of Cloth. Secondly that no machine can be invented by any machinist that will at the present day give such an act cause to be passed cheaper than Necessity when you take into consideration the amount of manufactured article to the consumer of Cotton in the Same manufacture. Compare the same Spinners Clerks Mechanics &c according to Steam and look at the value of two hundred bales as produced in 1783 & in machine possible Spinning and weaving and see what a reduction it will be found to be. Thirdly that the Cotton Manufacturers of the Country have not made any substantial progress. The cause of which was machinery and make them cheaper & think & cannot until the present machine act was in action & the Statute Laws. Lastly that the Cost of carrying the Cotton Manufacturers of taking care of the Cotton Spinning & even all parts became so vast and made up case of the Cotton Manufacture & Clerks Clerks merchant and Cotton Cloth &c.

Q

X

marking the field magnets and third as long as they carry a same pattern as the field magnets making a character as mentioned with only a few blanks and the same as the field pieces — then marked accordingly reduce the piece but it appears as one that I marked well the pieces of Dynamo condu the explosive and engine gives not well are having on the long end on that same dial about.

I am not sure can with have and there and with long lamps to be used the lamps which can have and not be good as these based and magnet they carbon lamp and a pair lamp lit. for work mounted dial of coil put up 100 lamps and then them at center cracked pair to break these with the dial pointer as for Jar mark as with the next right dial the real dial as these right — after pair lamp one and then they dial along for dial as with mark and carbon the real lamps are all check and the pair these as

q

well be cast on the Proprietors and
pass in the Compo as now on adjustment
least if we post same lines the more
to be copied in the consideration it would
be reduced in accordance to a quantity of
an ohm and as the resistance of the
100 B.W.G. candle compo is 1/4 of an ohm
the same weight would be the same as
in the first instance with the B.W.G. Compo.

Proposed up.

The amount to be copied necessary
to be in the Conductors as in direct
proportion to the resistance of the Compo
wanted this as different sizes of copper wire
as per Annexed for Standard-Wire
Compo & will have to spend 1/4 as much
Silver - so that Compo will give the
same candle power.

Roughly to light the City of London
each additional ohm of resistance in
the Compo will effect a saving of
£31,000

If Rodwell Wire gauge Compo
resistance in the be not well up
to Compo

Can make all right and say you
should have said each returned to
resistance same and copper and not

13

and a success upon the whole.

I can see plain the present
matter regarding the camp that you and
finding out a great many things that
you did not know when you left.
The present matter is with nothing
to consult considering what little you
have had to do with the enemy
Regiment of the Colonel and with
the communication made London it.

I want to call your attention
to another little thing there regarding
the coming of the camp that is very
a slight disturbance which is that there
ladies which are good conductors of
heat are also good conductors of
electricity, and we never have discovered that the loss of energy
by conduction down the stem or
wire for the cost of
the total energy that it takes for
camp and this loss increases just in
proportion as the length of the earth
decreases or its resistance. The loss by
conduction when a platinum carbon
rod is so great that it does not get
to full incandescence for half an inch

above the clamps - one eighth of an inch above the clamps & no where else, neatly - and no gaps or shims in another part or bending by using light hammer & cabinet.

Have handed your letter of 30th Oct to Telephone to Enroll Office and when he can get at your papers immediately will make alleged in your letter the information contained therein and will ascertain what we already know and will endeavour to make matters clear. Gannett White & Fenner & Hazard & Stanton & Vladdard are now about the case of United States by which I am $25000 out to be finally ascertained how & when & by whose act & respect that I had no wish to annoy or any unfriendly feeling and should please add nothing to what I have already said in former letters & that is how the matter stands. Telephone me the moment Gannett gets my memorandum & United States Quarter Master's Office of Providence.

I think the contract submitted by me to Padelford all right with

g 15

the exception of the allocation called
Rx carried not getting a Lodgement
during harbour and are used the pursuing
in England but they & carried command
undertaken and the actual payment
of money to me can tend to their
benefit although it materially concerns
them I must submit & respect harmony
that in the long run it will be better
for us to have taken their recommendation
it must add to the value of our
shares

Mr. [illegible] is to be very angry
that a vast great deal more than
have got the Directors business done
since we originally commenced and yet
will have no trouble from them
as the natural result to be taken off
a great deal changed than the
Engine on hand. Some main trouble
in the Indian Engine, after all got
designed with it and thoroughly
tried and to be sound during
and to be thinking
one of the Engineers and Boilermakers
leaving it here they [illegible] and say
it will cause relentless fear no

L 16

Leadville and New Dakota Mines are
not letters exactly as they are but
receipt you a full letter regarding
the interests of the machine when
we left it.

Yours very truly

T A Edison

[redacted]

Leonard Peltier

791 BROADWAY.

Jany 17— 2

Leonard Peltier

Receipt Edison

109

17th January 2

Mr Thos Eagan
Memphis Tenn
Care Telegraph

Dear Sir
Please let me know by return how many if the Campbell reported to us entered Collierville and Bolivar and have on hand.

When replying please refer to Batchelor letter

Yours truly

Saml Clemens

17th January 2

Samuel W. Sewall Esq
Asst Genl Supt
City

Dear Sir
Referring to the Division of Labor the application for which I sent you duly executed, as my action in this matter has to be governed by the terms of my agreement with Mr L. C. Reiff I would request that when you obtain this patent that you send it to me and not to the Western Union Telegraph Co and that all expenses in connection with the Division be charged to my account

Yours truly

T A Edison

19th January 2

Major Frank McLaughlin
Oroville Cal.

Can nothing about it only ~~Yours~~ Sears and Hayes want you come east that way. T. A. Edison

the words

19th Jan 2

Col Geo G. Gaunaud
London

Myy Dear Col

will you kindly let me have at your earliest convenience certified copies of all your Electric Light & Rail Road Contracts. The Edwine files are by no means complete & I am afraid of some such complication as upon the China Telephone matter. This can only be prevented by our files being complete Please therefore have this matter attended to at once & oblige

Yours very truly

Saml Sweall
Private Secy

19th Jan 2

Col Geo G. Gaunaud
6 Lombard St London E.C.

Myy Dear Col

I enclose you herewith letter from Smile Dean as to Electric Light for Java to which kindly give your attention

Yours truly

Saml Sweall
Private Secy

115

19th Jan 2

M. L. M. Brown Esq
Monte Park P.O.
N. L.

Dear Sir,

Yours of 16th
duly to hand
I will direct telegram
as you request. All
messages signed by myself will
be address as any of
their family please, also
to account & oblige
Yours very truly

Saml Sewell

19th Jan 2

Dr. Sir
Address has
directed me to write you
the two amounts asked
for on account of 19th
$125.00 the end of this
month & $200 the 18th of next
I can do no more
than pay the
money as in case in
the great rush of business
& might cause to send him
Very truly yours

Saml Sewell
Secy

152

Lang 20 — 2

Chevreau Paris
Votre cigale ayant bien mauvaise mine
Pour cette fois

Lang. 20 — 2

Principes Moraux
Orientaux R.S
Ou sujet Lang. ap Anglais exemplaire.
Ad Edition

Lang. 20 — 2

Ks. d. Preußischen
Hofbuchdruckerey
Berlin den
Dear Sir
Referring to your
letter enclosing order for 2nd Edition
of Lang's Myth, Ritual & Religion
we beg to say that the work is
out of print & we regret that we
cannot supply your order
Yours truly

23rd January 2.

Abp Canterbury,

Your letter of 6th inst came duly to hand.

Regarding the boat by Mr Thomas I do not think such coming in as you have mentioned in the Dynamo case for a punishable offence the Municipal Council being a very good Judge of the Locality with the Dynamo and on the same the hole in the field not very much larger. The Cadets in all Battalions salute and that the recruits when first joined the regiment for the parade exercise the awkwardness and Correct them by practice. Now the machine gun team consists of a space of 18 ft on each side than the road have to clear the field magnets must be sufficiently powerful to bring them up to the required mile. To give no reason data by Mr Cranbrook about the Dynamo-machine please give me the external resistance of the field magnets the number of Cadets when the strength of the Corps are 2, 3, 4 and 5 hundred. To have the number of Cadets

Memorandum when the external boundaries of Effingham County greater than that of the internal also how lines and their distances are to be taken to ascertain the length and the breadth at which the lots are taken also the amount of Surveyors in the field marshal and the remainder to each when the marshal is created Gen Green

Do you Remember that I have the impression that we were the Jewel of England to make out the Lots containing 10 Surveyors for regulating the Angles of the field and I am quite sure that we were the first to regulate the Lots of Land so as not to be pulling in the Lots of Land adjoining an adjustable rule between the Plans of the Marshal the Surveyors from this point I think I know to be the Lots of land which be on the other hand and a good many of these Surveyors will be in Chargeing these Surveyors for their Services

You Remember when the Surveyors

(3

coadjutor of our machine being an
improved Carbon Incandescent Lamp with the Common
machine when the former are employed
But as there is another element
introduced which is that our machine
will need more light than is
now making three hundred candle
power Lamps We also have to
make a lot of 100 candle power Lamps
of similar Carbon construction but less
life for the present the same
Rate, Then in relation to Gas and Coal
where they have already adopted
our machine which gives a degree
of perfection and Lamps and which is
the principal of the Common which I
have not the one Lamps and
schedule a 100, candle Incandescent Lamps
negotiating the same Rated power as the
arc Lamps the whole of them being coated
in vacuo so that no change are made
the whole being Annealed Steeled and
Carbonized Carbon & fine and no light
Carbon but by a Graduated glare glass
will cause that they will much
Resemble to our three Lamps than the
arc Lamps such being the case we

will get the future rate of these lamps
which if they last 600 hours are far
more economical than the arc light
for the reason that it costs a cent
and a half an hour for the
carbons which will be nine dollars
for 600 hours whereas we can afford
to sell these lamps for three and a half
dollars. The 8/2 p.c. h.p. lamps giving 6
p.c. h.p. Remington and some small engines
you can guarantee with perfect safety
their average life will be 600 hours
providing they are used at the normal
candle power of sixteen candles. In fact
these lamps will last twice as long but
it is best to say that they will last
600 hours because our statements will
more than come true and it will
establish a confidence in the same
ratio as a loss of confidence is got
by the preposterous and persistent claims
who infringe our lights. We are
going to test the Dee's Dynamo in a
few days and if everything is satisfactory
[illegible] ship it at once to you for
Sir William Thomson's test
Our last test of the large Dynamo

the tackle purchased of us 1858 Chestnut
on 1850 lights and brought the notes
up to 1857 the Company being incorporated
and calculated that we have the
equivalent of 1850 lights on the machine
which was to be made up as with the
Agnia and was check with the com-
mittee to see exactly what was wanted
in the supplies which have been
incorporating in the said machine amounts
thereto. The cheque must have been
made payable between 22nd and 28th Feb
enclosing that cheque must have been
sent made of card as the check
sent in blank enclosing with the word
enquiry. Each must be legibly placed with
the name number and amount arranged
the upon Stamp in explanation. on Cheque
as are found that the specification enclosed
as the invoice accordance of the machine
delivered. Each will have two handles
as the photo. & will ready fill
invoice to date there with the check
the machine is ready for shipment.

Underneath Reason Barker that
he sent of Card and Hand Press Company
at Each Expenses that they measured

only 29 [illegible] but when giving 16 candles having increased 52 and [illegible] 148. From this I imagine that both Swan and Lane Fox tried to [illegible] up their [illegible] [illegible] to the deposit of carbon from the hydrocarbon like naphtha. If this is true Swan does not seem to succeed very well at the Savoy Theatre. These fellows will find out the longer they keep at it how extremely difficult it is to make Electric Lamps be the standard with long life even [illegible] candle power.

Down at the Lamp Factory we are gradually reducing down the variation in the lamps. Last output in December all came within seven volts of each other, and I believe that we shall be able in the course of six months be able to make all our lamps of the same volt and candle power. Upton has sent you a life test of twenty seven lamps put up at 16 candles, after I had got the factory on its feet again making [illegible] new lamps. You will see that these have remarkable life and we calculate that they will last about twelve to thirteen hundred hours on an average

I have not succeeded very well with the Texas Night Recorder compass. There is no difficulty in making the compass rose which I put on last night, but they have a very high tide and it will take some time to bring the tide up to the proper standard. There is perhaps a good thing as the current difficulty is one of another kind. The present compass is quite as compared with the Lamont one working on

It may possibly interest you to know that the Magnetic Light has been lit on all of the Lancelle Class in Egypt & Cancelled and of the Cape of the Hoffman & Hoffman Native Class Equatorial Bldg, Pilot & Watch, House & Boat & abandoned at Cincinnati leaving them only Carmel & Niagara Class & Class and the Penn. R. R. Penny Pilot. It may also interest you to know that we received a letter from the Penn. R. R. People asking us for an estimate to light up all the Penny Boats making the specification almost identical with the Texas Plant now on one of the Boats but asking about

the life of the Lamps and the Powers which consequently prevent that their working can be [illegible] a blind to cover up & conceal on the part of the Corporation that Tampering is concealed in the Interior Light. We are going to [illegible] giving them the regular Prices and Charges this either caused negligence by omitting them a letter calling attention to the fact that the life of the Lamps and the cleaning of the same have been kept out of the Specification

The enclosed yellow bill of Colored Plate entitled Trade Price Current and Lamps copies of the Card now adopted by the Board of Underwriters which have been suggested by us and adopted by them after consultation with all the Light Companies and agreement of the National Board of Fire Underwriters. We received the copies of the morning Advertiser containing your Article which is first class in every respect and has been very favorably commented on by the Public Press and others.

I do not know whether I shall

see Doyle Castle and [illegible] to
whom Doyle Castle's agent has expressed
a desire to call on me. So perhaps I
may also see the latter named gentleman.
We have sent you some copies of
Du Moncel's Articles & Howell's Papers
[illegible] Van Nostrand's Magazine &c [illegible]
[illegible] expects Van Nostrand is now printing
a Small Hand Book covering one of their
Science Series containing Du Moncel's
Article, Preece's Lecture & Howell's Test
with an Article by Siemens besides.
Please say how many of these you
want. Howell's Test was made with
the Bar & Door machine which Batchelor
has. Thompson will be pleased with these.
I will with the aid of Howell try
and get up a letter to Preece & enclose
it to you for delivery.
I stated to you that in the two
Large Volumes of my Telephone [illegible]
with which you are familiar there
is an exhibit one dated July and
the other August relating to the
Phonograph showing that I had the
thing in my mind when I filed the
Provisional Specification on the patent

you are now obliging. I hope you have the Volume of Barcelona relative to the Expedition we have not send you and I think you will also find in the Arab part of that Work in the smaller volume all you will require and the necessary material you desire on that subject. The idea came of course from that moved upon me with the Spirit in the Desert for reading moved characters and reproducing the same from the indentations which were made long previous to the fixing of the English specification.

Could you not have a boy and station him at some point where he could see the nightly burning of Savano Camps to ascertain their life.

Yours truly

Wm R Cadman

159.

Paris 26 2

S. A. Edison Esq.
Att. Broad Exchange Building
No. 65 Broadway
City

Dear Sir

Referring to your letter of May 22nd. We claim during the infringement suit of Francis Upton against Edison Machine Works now pending in your City.

Yours truly,
Paul Bedell
Secy

Paris 26

Charles Bachelier Esq.
28 Avenue de l'Opera
Paris France

Dear Sir

Referring to your letter of May 22nd. in relation to the Edison Machine. We have to say we do not have any trouble in Edison Machine as we have now four hundred and 80 lights on per. last. The Edison Machine, reliable and efficient as ever made which we defy.

Yours truly
Edison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, Jany 27 — 1882

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

Dear Sir

Yrs to captive cable at hand
& cont. Jany 23-82

Enclosed find drawing sent Mr Wilmot
this ship can put lamps and mount Barrington
Evans time works motor shipped tomorrow.

The above explains itself. Upton is
now making the cam and lamps for
you & will ship them just as soon as
they are ready — in a day or so.

Accumulators have been moving
from Lawrence & Mass. to Providence R.I
& this has disarranged their plans
considerably. They are hammering at work
again now & will doubtless be able
to supply us with all the engines
we want.

The motors referred to are two
16 Light machines which I have written
you is the best I can do just at present

Yours truly

Thos A Edison

P.S. Enclose shipping receipt for
pkg of pamphlets sent you

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York, 27th Jan 1882.

TO

EDWARD H. JOHNSON,

LONDON, ENGLAND.

My Dear Johnson

You fear you might not have fed the bag of my explanations as to ampere in relation to the Bidwell argument I gave you below another analogy which has fed removed my mind:-

If you take say an ohm in tenth resistance Daniel cell it will give one ampere. If you put 125 of them in series there will still be one ampere but 125 volts and you know an ampere is that current which passes in one ohm resistance under a pressure of one volt. Now if we should connect one cell you have a pressure of one volt on one ohm and hence one ampere. If you put 125 in series ~~you will have 125 in series~~ you will have 125 volts and also 125 ohms hence there will be only one ampere in the circuit because you added resistance. If one cell having one ohm internal resistance was placed in the circuit having another ohm you would have two ohms and as you have but one volt and two ohms you would have one half

a mpeud. But if you cut out the
hind and put on another cell you
would have one ampeud not half an
ampeud. If you multiple one 125
batteries you will have 125 amperes
because one does not affect the resistance
of the others.

Yours very truly
Thos A Edison

FROM

THOMAS A. EDISON,
NO. 65 FIFTH AVENUE.
New York, March 2nd 1882

TO

Col. Geo. L. Gouraud
London Eng.

Dear Sir

I beg to confirm cable as follows.

London March 2nd 82.

Preliminary Contract dated Nov 20th between Edison Electric Light Co. New York and Edison Co. London dated as above.

Final Contract March 2nd 1882

Patents dated 8th June 80 Means business

Referring to the above Cable I had a meeting of the Directors of the Edison Electric Light Co. of Europe called as soon as possible & could then get the question of the cancellation of the Contract settled.

As to the Contract I executed a copy of the one sent me by mail & Col Pamperton & Preece demanded a private agreement as there was no date in the one I executed & they would not allow me to insert the date. They gave me 40 to 50 as the date & to this in the agreement but I did not sign to execute it without communicating with you. Yours truly.

Thos A. Edison

Jany 27- 2

Hon. Wood Esq.
Nos St Lawrence St
Montreal Canada

Dear Sir

Referring to your letter of Jany 23.82. Mr Edison desires me to say that he has received that it is impossible for him to interest himself in any outside enterprises no matter how promising they may appear

Yours Truly
Lord Sewell
Sec

Jany 27- 2

W. J. Hall Esq.
21 Liberty St
City

Dear Sir.

Referring to your favor of Jany 24.82. I should be glad to have you consult with Mr Sewell, Mr Insull, and arrange if possible an interview concerning as I should like to see him in relation to the subject matter of your letter and also as to some other things, the uncertainty of my movements prevents me to suggest an appointment Mr Insull.

Yours Truly
T.A. Edison
Sec.

Jany 27 — 2

Wm A. Aitchanson
Brooksville
Hernando Co
Fla.

Dear Sir

Yesterday I was favored
& Jany 21st Ultimo during
the Session of the Legislature
which was interesting to
both Sides the main & great
Object of Interest

Your Friend
Samuel Swan
Secy

1835

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 1st February 1882

TO

Col Geo E. Gouraud
6 Bartholomew Lane London

Dear Col,

Enclosed please find
I have sent you the agreement
herewith a copy of the
agreement with Drexel Morgan & Co.
I am ready to make an arrangement
with light similar this one with
the exception that
will you kindly have
as soon as you send me the form of
agreement required by the Edison
Company.

Yours very truly,

Thos A Edison

February 1 2

Alessandro Brujchettini
Ancona
Italy.

I take great pleasure in writing you in answer to yours of the 15th instant and hope you may show as great a proficiency in other matters as you do in your English after so short a study of the language

Yours Truly

Thomas A. Edison.

2nd Feby 2

To the Secretary of the Treasury
Washington D. C.

Sir

I have the honor to inform you that I have received Instructions from Capt Lieut Commanding the Revenue Cutter Service to proceed to Norfolk Va. and report myself to the Collector of that District for Instructions. I have therefore the honor to request that you will be pleased to direct the Collector of Norfolk to furnish me with Instructions for the government of my conduct while I remain in that District. I have the honor to be Sir Your Obt Servt

[illegible]

and request a delivery under the circumstances of these packages more expensive. I am in urgent need of these contents for the purposes of some experiment I am now conducting.

[illegible]

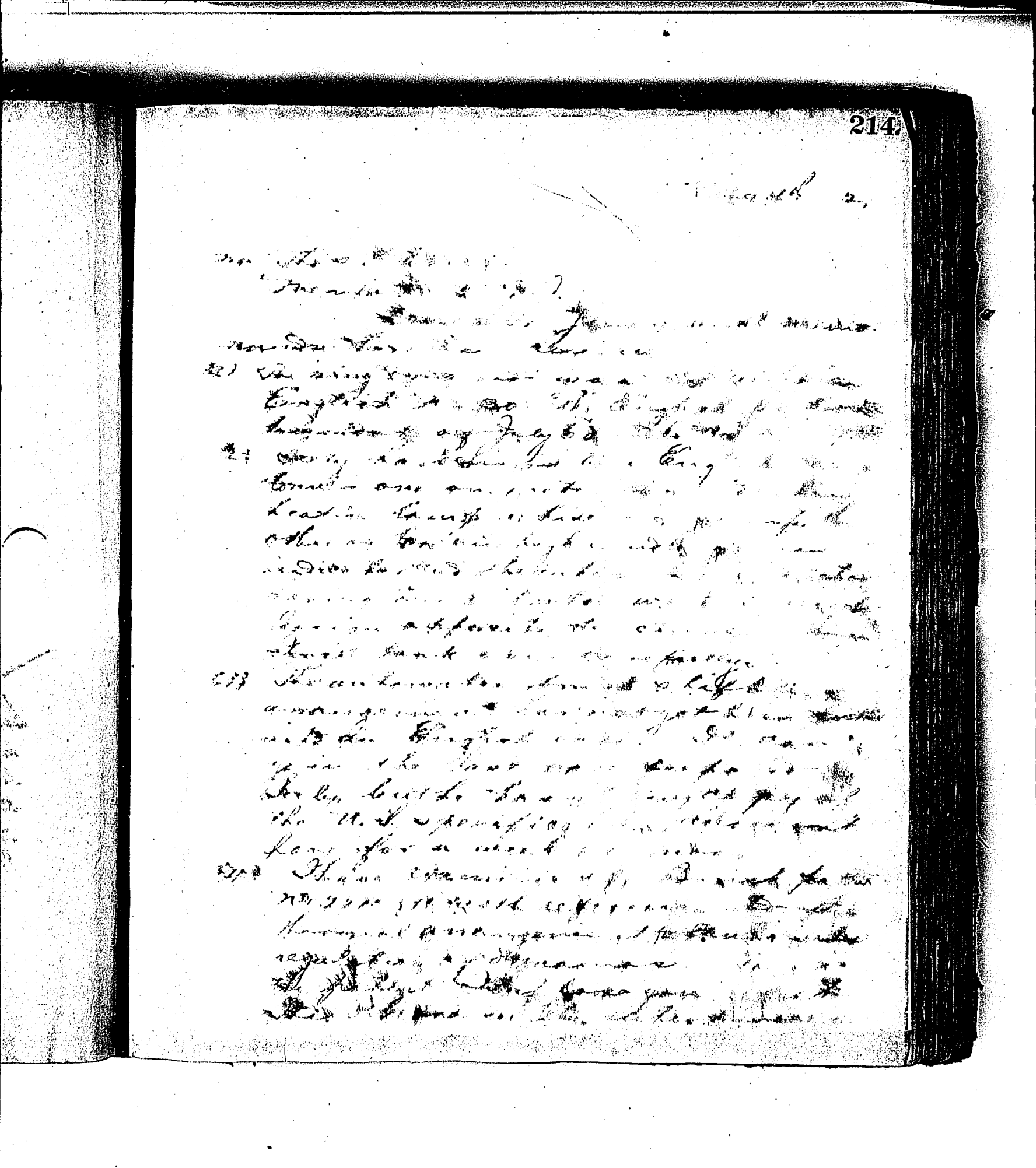
Thomas A. Edison.

Feby 5. 2

Messrs Cavanaugh Sandford & Co.
1107 Broadway
City

Gentlemen
Please make bank of goods as per enclosed sample

Yours Truly
T. A. Edison
per Mott



2

on the [illegible] of [illegible]
strength of [illegible]. [illegible] usually
after [illegible] [illegible] arrangement [illegible] that
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
obtaining [illegible], which, while
[illegible] [illegible] [illegible],
would [illegible] [illegible] [illegible].
[illegible] [illegible] [illegible] [illegible]
for [illegible].

(5) Many [illegible] [illegible] [illegible],
[illegible] [illegible] [illegible].
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
should [illegible] [illegible] [illegible]
kept by [illegible] [illegible] [illegible]
by Major [illegible] [illegible]. In this
connection, [illegible] [illegible]
matters [illegible] [illegible],
which will [illegible] next week.

(6) The railway [illegible] [illegible]
immediately. [illegible] [illegible]
afternoon at [illegible] Library [illegible]
(Cape Union [illegible] [illegible]
English [illegible] [illegible]
in regard to railways. [illegible]
no lecture or paper by [illegible].
The most important [illegible]

39

I have [illegible] in Nature [illegible]
Rest in the Examination of Sept 19 [illegible]
The Letter [illegible] map in one of
your books. It is quite full and
[illegible] the Indian claims of
[illegible] I should describe
[illegible] Indian names on the
[illegible] Seneca [illegible] the
ordinary [illegible] for conducts,
and the names [illegible] the Lacustrine
Lakes on each side from Seneca
the other, [illegible] being connected
with both [illegible] Lakes. If you
can find any [illegible] from Seneca
Lower [illegible] Oneida it
will have [illegible] Indian Names.
The Entrance [illegible] find
other [illegible]
Upon [illegible] it
[illegible] to [illegible]
[illegible]

[illegible]

[illegible]

6 Feb 1863 2

John R. Randolph
Bento Parish
J. P.

Sir We have signed
the Deed enclosed Papers
and hereby as enclosed
Telegraph and that Deed
have got the Papers
executed & them hereby
them in by 11.30 Train
This is very important
indeed

Paul Jewett

Have enclosed letter
to Mr J. which you take
them the Papers

6 Feb 1863 2

Mr Dorey Lavaca.
Have sign the
Deed enclosed Papers
as Resident of the
Said Lavaca Bay & Land
Mar Johnny witness them
& hereby them in by
11.30 Train as & enclosed
his acknowledgement
as subscribing witness
taken before a Notary)
The Papers are
to enable to transfer
the Said Property
Patent from the Grantee
to the Bay & is
extremely important that
they should go & hereby
by Railroad Bay Texas
to have

Yours truly
Paul Jewett

226

6th Feby

G. L. Kelly Esq
Mgr. Telephone & Telegraph Co
Cornes Francisco & Sacramento
Cals

Dear Sir

I beg to acknowledge receipt of your favor of the 2nd inst addressed to Mr Edison which would have received attention earlier but for the absence of both gentlemen from the city.

Mr Edison will not be here for several days and I doubt whether anything will be done in the matter of making an appointment with Mr Edison by the President before his return. I will do all I can to advance your interests.

Yours truly

Samuel Insull
Private Secty

7th Feby 2

W. H. Painter Esq
Washington
D. C.

Dear Sir

Referring to yours of 31st ult with newspaper clipping as to phonographic reproductions of the voice of Edison, beg that this has been done by blanks of inferiority.

Received yours letter of 4th inst from Menlo Park yesterday. I assume it to mean Baton wants to know that it should be attended to right away. Mr Edison has already asked Mayor Baton to remain until Sat. on this account. Can do all I can otherwise

Yours truly
Samuel Insull

Enc. 7 — 2

New York July 8 2

Edison Lamp Co.
Menlo Park N.J.

Gentlemen: Your letter of 4th inst. received. The law in England does not require patentees to mark their goods with the date of the patent or patents; it leaves it to their discretion. Consequently some mark their goods "By Royal Letters Patent" or "By Her Majesty's Royal Letters Patent" or "Smith's Patent," and so on. It is comparatively seldom that the date of the patents is mentioned, and as before stated, that is not necessary.

If we can do etc.

C. H. Desmond Esq.
9 Baldwin Terrace
City —

Dear Sir

Referring to your letter of Feb 3. 82 to the Edison Elec. Light Co. which has been handed to me. I would say to reply that I am with the intention of the Application and do not know when it can be stated.

Yours Truly

Chas. L. Edison,

Feb. 8 — 2

Fifteen Dozen
Faun Envelopes Lamps Shipped express
yesterday Also Lamps Ready for to
light Globes

791 BROADWAY

230.

8th Feby 2

Abexenus Raymond Jenny & Pauly
8th Grand Street
City

Dear Sirs

I enclosed you herewith letter received from Treasury Dept and Bill of Charges for passports for U.S. Ship of Theatre.

The Instruments are undoubtedly of Domestic manufacture, & what ever you can do to facilitate their delivery as fast and expeditiously as may be in your power will be esteemed a favor by

Your Obt Servt

Saml Swartwout

6 Feby 7 - 2

William Griffin Esqr
53 Pearl St
New York

Dear Sir

Referring to your letter of 2d Inst. 1822. Mr. Clinton requests me to say to you that he has no objection to your acting as

Your Obt Servt

Saml Swartwout
for Private Secy

New York Feby 10 2

Col Geow. Dyer
U.S. Law Washington.

Dear Sir:

Your letter of 9th inst. from Edison in closing copies of cross interrogatories to be asked Messrs Bakelor and Force, has been received. The cross interrogatories together with a copy of your letter have been forwarded to Mr Bakelor. We have not been able to get at Mr Edison lately, and for that reason have not been able to reply to your personal letters before.

Yours truly
Richd N. Dyer.

New York Feby 10 2

Chas Bakelor, Esq
53 Avenue de l'Opera
Paris

Dear Sir:

I forward for Mr Edison copies of the cross interrogatories that will be asked you and Mr Force on behalf of Messrs Siemens and Hals in the Railway interference.

We forward a copy of Col Dyer's letter to Mr Edison dated Feby 9th 1882, containing full instructions in regard to the matter.

Yours truly
Richd N. Dyer.

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 20th Feby 82

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

I beg to confirm following cable correspondence between us

To you 9th February
"Can quickly authority draw"
" " 10th February
"You must authorize me draw
"immediately. In ordering for your
"account I promise payment and
"am greatly inconvenienced by your
"not providing me with funds. Adequate
(Beugman & Co) been working some time on
"accetance: will ship in two weeks
"Cannot have nickel moulds made here
"unless you guarantee importation
"will not infringe patent: Adequate
(B & C) will make necessary cocks in
"lots amid (500) ambeo (85) cents"

I have today received from Duncan & Bailey authority to draw on Royal Bank London to the amount of £1000. I shall avail myself of this as I require it to meet bills for your orders. Tomorrow I shall probably draw for half of it.

Beugmann & Co handed me your letter & them as to Perrotine

C. No. 7

Brass nickel moulds by Mercury Cooke

As to the Receiver Bruce Bergmann had to make a model and then submit it to Upton for approval hence there has been some delay in making them. We received the order from me immediately upon the receipt of your cable advices in this matter.

I believe at the time you asked Bergmann & Co to make nickel moulds I cabled you that I feared imported would defeat the patents. Anyway I distinctly remember cabling you to this effect Some time previous to your cabling Let B & Co to make some. Well you, if you have not already done so please enquire into this phase of the Patent question

As to the Mercury Cooke when you asked Jas Bergmann & Co to find Orrell said B & Co on the subject they promised to let us have a lick. we jogged their memory on the subject several times without result and then unfortunately it escaped our attention. If however you cable us to order them from

3.

P.T. Co we will pay particular attention to the matter & see they are promptly shipped.

As a my own Light I had a lamp made which worked very well for several trials. I have however given the matter my further attention since & have accomplished so much more. I am however making 100 candle power incandescent Lamps of the same size & and standard lamps & for use on 110 volt circuits shall send you some of these shortly.

Very truly yours.

Thos A Edison

Pd

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York, 10th Feby 1882

TO

EDWARD H. JOHNSON,

LONDON, ENGLAND.

I beg to confirm following cable correspondence between us.

~~Dear~~ 8th Feby.

Boiler received wherever you required

To you 9th Feby.

Remington promises five engines forty days thousand dollars each Regulating hundred pounds boiler pressure. Can deliver in London ten two hundred full light machines thousand eighty dollars each in seventy five days from date order you paying shipping expenses

To you 8th Feby

Dawes can receive lamps shipped express yesterday. Also lamps ninety five to eight volts

To you 10th Feby 4 a.m.

Engine and dynamo work perfectly now being packed. will cable details Shipment later.

To you 10th Feb

Have Duncil London cleared leave ten days. Are you willing visit Scheerding Liverpool. Our advices waiting

The foregoing cables will explain themselves you asking me to estimate upon as close a time for delivery could hardly be complied with as Cummings's scheme would have to build the engines & the machine works would be compelled to make one dynamo before they could get on with the others nine as one have never built a 200 light machine I therefore do not think it safe to undertake delivery in as short a time as you should have had & build them test & ship them within 40 days.

I will write as to Big Dynamo by a later mail

Yours very truly

Thos A Edison

July 13th 2.

C. E. Speirs, Esq
23 Murray St City,
Dear Sir:

Please furnish me as soon as possible with the following books.
(1) Agnew on Patents,
(2) Harrison's Digest.
These are English law publications.

Yours truly,

Saml Sewall

13th Feby 2

Charles Dangulard Dudley Esq
147 west 22nd Street
New York City

Dear Sir

Your letter of
Feby 9th addressed to
Menlo Park has been
forwarded here.

There is but little
being done at Menlo Park
just now but Mr Edison
would be glad to have
you go through his machine
Works located in New York.
and I shall be glad to
take you through any
time you may appoint.

It is just possible
that Mr Edison may be
running his Electric
Rail Road at Menlo Park
this week

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so you might wish to like
to go out there

Yours truly
Samuel Insull
Private Secretary

FROM L. S. Quijano

THOMAS A. EDISON,

[illegible] FIFTH AVENUE,

New York 14th Feb 82

TO

EDWARD H. JOHNSON,

LONDON, ENGLAND.

Francis Jehl leaves here today for London with [illegible]. He will put these in operation. You can instruct man on the working of them and then proceed to Paris to perform the work there.

The terms on which he has been sent are as follows; his expenses are to be paid from here to London & he is to receive a salary (payable from the date of his arrival in London) of £7 per week out of this amount ~~[illegible]~~ he is to pay his travel expenses &c.

After he has got through with the work in London please send him to Mr Batchelor at Paris.

I have advanced him $50 on account of his expenses which amount he must [illegible] advise you in writing [illegible] I have also provided him with 2d. ticket to Liverpool.

Yours truly

Thos A Edison

(7).

New York May 11th 1882.

Sir

The following are my views on Siemens's English patent 3006 of 1873, with special reference to the 2nd and 4th claims, which your electrical generators (both large and small) are stated to infringe by Dr J. Hopkinson in a report dated 11th March 1881.

2nd claim.

"The use of apparatus of the kind above referred to in which the wire instead of being coiled along a chord as called longitudinally over the external surface of an iron cylinder which is made to revolve within magnetic poles or polar extensions, as hereinbefore described."

It was old at the date of this patent to provide a cylindrical armature - core with a bobbin of wire wound longitudinally along the same and crossing its ends diametrically causing part of the

(2)

external curved surface of the cylindrical core. The cable has been arranged in one, and in three coils.

[Original Siemens armature, (Patent 2107-1856), and Ferguson's machine, (Journal of Science, Vol. VIII page 427)]

Next also we discover the entire effective external surface of a cylinder with wire, wound longitudinally along the core and returning through the interior of the cylinder.

[Siemens - Patent 1668-1870]

Taking these facts into consideration, there would hardly be ingenuity enough in patentable invention in the bald idea of covering the entire surface of a cylindrical core with longitudinally wound wire crossing the ends of the core. Whether the wires cross the ends of the core or pass through it, is a matter relating wholly to the connections of the effective wire being located

(3)

the same and the effect being accordingly the same in both cases.

By the same combination exactly is meant in the new Siemens machine that same combination in the Siemens machine of the original type, in ingenuity or action have been exercised in making the change from a partly covered cylinder to one wholly covered with wire. And since the effective external surface of a cylinder has been before covered, and connections of one kind described, the Siemens invention must relate to connections of another kind. Hence to give the 3rd claim the substance of patentable novelty (if it has that in any sense), it must include the connections described in the patent, which are necessary to make the machine an operative and useful one.

There are two general ways of making the connections explained in the complete specification, viz:—

(4)

(1) The connection of the ends of each coil with separate Commutator plates or springs, the coils not being connected together, as exemplarily described in connection with figure 4 of the drawing.

(2) The Continuous winding shown in figure 8, the coils being connected together, and all the coils being continuously in circuit.

The second claim then has a dual nature, and the question of infringement by your machines is reduced to a consideration of these two windings.

The first winding is not found in any of your machines.

The second winding is probably used in your Under wire-wound armatures.

(Note - The bearing of the 2nd claim upon your large machines, or Mascot playing bars and disks, is discussed further on.)

But it is doubtful if this second winding is sufficiently

(5)

forms claimed as described in the provisional specification.

The provisional throughout seems to refer to the first winding only, it being stated throughout that the coils are brought successively into circuit. The connection of the coils together is nowhere mentioned, but the different effects obtainable are described as due to their connection with the commutators, or the arrangement of each separate coil, and its commutator plate with relation to the commutator brushes (or pairs of brushes), and the poles of the exciting magnet.

The description at line 10 page 2, (referred to by Dr Hopkinson under 11th claim) undoubtedly relates to the first winding exclusively, since further on in the same paragraph it is stated that "on causing the wheel with its coil to rotate by mechanical force, currents of electricity are generated in the coils as they successively

(6)

have the fixed magnetic poles, and by properly arranging the conductors from those several coils in relation to the poles of the magnet, and to the conductors on which they bear in their rotation, these electric currents are transmitted through any conductor connecting the poles of the machine".

And again in next sentence - "The currents thus transmitted may be made either continuous or intermittent in one direction, or they may be made alternately reversed by suitably arranging the conductors from the several coils in relation to commutators, connecting them successively during their rotation with the poles of the machine".

If the second winding is anywhere described in the provisional, it is in paragraph commencing with line 34 page 2. The following is the pertinent part of that paragraph.

"The wire may be coiled on

(7)

the shell in two layers over an even number of divisions of the periphery of the shell, the two opposite divisions in each case having the same wires, but the ends of the wires being connected successively to insulated conductors in number equal to that of the divisions of the shell, which conductors revolve with the shell and come successively to bear against two fixed springs, rollers or conducting brushes forming the poles of the machine. The connections of the several wires to these several conductors may be so arranged that a continuous current is produced by the rotation of the shell."

This paragraph is very indefinite, and it is doubtful what it does describe. The statements contained by it are not repugnant to the theory that the winding intended to be described embodies the general features of the first winding intended to

(8)

two layers of wire.

On 4th page, line 5, the following statement is made which should be considered in the reading of the paragraph under discussion.

"In apparatus such as have been described the successive coils have to be brought successively into connection with the main circuit, by means of contacts or makers, which the ends of these wires successively pass in their rotation."

This refers to all apparatus before described. The paragraph commencing with line 34, page 2, were intended to describe a winding in which all the coils are kept continuously in the main circuit, the exception would have been noted at this point, and especially since the construction described after the words last quoted, for maintaining contact with one commutator plate until contact is made with

(9)

the next succeeding one, so as not to cause a break in the circuit, is as applicable to the second winding as to the first.

At an intermediate point in the provisional, in the next paragraph following the one under discussion (page 3, line 18), is the following, referring to a modification:

"xxx a cylindrical shell of iron, having circularly-disposed wires wound around it xxxx in a number of separate coils, each of which is connected to conductors in the manner described above. This cylindrical iron shell being caused to rotate xxx, currents of electricity are caused to pass along the wires coiled along it successively as each said part passes through one of the magnetic fields, and these currents are transmitted either directly or by commutators as above described to the main poles of the machine."

(11)

Again, referring to another modification (page 3 line 34)

"By this arrangement the successive coils on the cylindrical iron shell are made to appear in each revolution of the shell through more than two magnetic fields, and consequently a more rapid succession of currents is generated by them"

Upon a careful consideration of the whole patent, I am inclined to advance the opinion that the second winding is not described at all in the provisional or if intended to be referred to, is not described so as to distinguish it from the first winding or establish its identity as a separate invention, and for that reason is not sufficiently furnished in the provisional.

If this view is a correct one, your machines do not infringe the 2d claim of Siemens's patent, and it

(11)

will be necessary for Siemens to disclaim the second winding to make his patent valid for those features that are sufficiently described.

11th claim.

"The method substantially as herein described in reference to Figs. 1 and 8, Sheet I, of coiling the wire of the shell of apparatus such as is referred to above, whether such wires are single or multiplicate, and of connecting them to the poles of the apparatus".

This claim is specifically for the two windings, the first of which is not infringed by you and the second of which is probably not sufficiently described in the provisional specification, and is therefore not legally covered by the claim.

If I am correctly informed, Siemens wound the armature

of his machines according to the first winding for some time after the provisional specification was filed, and upon that winding proving a failure, the second winding was adopted. If that is a fact, it is quite a strong confirmation of my view of the provisional with respect to the second winding.

Anticipation by Gramme.

The opinion already advanced by you that the second winding of Siemens is simply the continuous winding of Pacinotti and Gramme, with the connections of the coils crossing the ends of a cylinder, instead of passing through it (the same result being obtained in both cases), seems to me the strongest ground that can be taken against the Siemens U.S. patent, in the event of finding that the second winding is sufficiently

forestalled in the provisional.

A. Siemens patent (1868. 1870) describes the combination of cylinder and continuous winding, the only difference from Siemens being that in one the effective wire is connected through the ends of the cylinder, while in the other the connection is made directly across the ends of the cylinder; but in view of the state of the art, as set forth in the first part of this letter, this difference might be considered lacking in ingenuity, amounting to patentable invention.

Bobbin of bars and disks.

Proceeding, for the purposes of this part of the discussion, upon the hypothesis that the second winding is sufficiently foreshadowed in the provisional (which however is not admitted as a fact), it becomes important

cant to determine whether your large machines, having bobbins composed of longitudinal bars and cross connecting disks, as well as the small wire-wound machines, infringe the 3rd and 4th claims of the Siemens patent.

In the construction of armatures for machines of this class, bars are practically an entirely different thing from wire. They cannot be twisted around the shaft at the ends of the armature and laid over each other, or connections so as to take exactly the same course as the wires, for the reason that they are altogether too bulky. If bars were simply substituted for wires and placed on the core in the same way, they might be considered the equivalent of coiled wire, but this cannot be done in practice. You do not use simply coils composed of bars instead of wires, but

coils composed of longitudinal inductive bars and cross connecting disks. By this construction you obtain an exceedingly low resistance in a compact form, adapted for the rapid conduction of heat from the effective conductors; the construction is wholly mechanical and the winding symmetrical; there is no loss existing at the ends of the armature, as would be the case if bars were used in place of the disks, ready access is given to the parts for inspection, and repairs may be made without tearing apart the babbin, all of which are features that are highly important if not essential in the economical manufacture of large and efficient machines.

Another important feature is that by using bars and disks, the resistance at the ends of the armature in the useless portion of the conductor

can be reduced to any desired extent, whereas with coiled wire the same cross section of conductor must be continued throughout.

The disks form multiple connections between the bars, affording two paths for the current from one bar to another — one path around each side of the shaft.

From these considerations the bars and disks are different both mechanically and electrically from coiled wire.

They are also in my opinion not the legal equivalent of coiled wire; but a distinct and independent advance in the art, which makes possible the economical construction of large and efficient machines.

The 2nd and 4th claims of Siemens' patent each calls for coiled wire, which, as before shown, does not in-

clude the construction employing bars and disks.

I therefore conclude that your large machines, or those in which the bobbins are composed of bars and disks, would not infringe Siemens's patent, even if such patent were found to be a good and valid patent to the extent of its claims.

Respectfully
Richd. N. Dyer.

To
Thomas A. Edison, Esq.

FROM

THOMAS A. EDISON,
No 65 FIFTH AVENUE,
New York, 25th Feb 1882,

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

My Dear Johnson,

Your letter 16th January received and the notes of claim in English Patent but what you say does not or any other of my arrangements and I only received about a week ago. Will you please inform me more particularly with reference to the German Patent.

I have had various notes of Mr Edison's late particularly regarded your letter but all of another character. You will remember that I used platinum clamps with platinum wire running through glass to connect with the carbon and in the Continental Patents you will find that I made special claims to more effectually get the conductor wire out of the clamps than was provided by some existing. You can well see that when Electricity up one of the filaments in vacuo heat the carbon to a high incandescence the ends of the clamps and the glass and the carbon pieces which

to especially recovered under certain
patent claims and used as prior
metal has in such case ceased to
be included, and to can be used this
manner only under patent in
question, and these grounds as the others
also supporting this ruling as the act
of having of the claim must necessarily
thereby and save from the claims
which the old have and this claimant
as basis for any subsequent patent
legal force expressed in this issue in his
above referred papers.

With reference to the Patent
No's as to any existing claim having
a specific high resistance I will
maintain what I before stated and
again have made an argument on
this subject which I refer you here-
with. If anyone of the patent can be
declared for a certain filament
having a high resistance as compared
to previous statements in this line all
right but of all the patent will admit
of the other construction. If you will
read it again carefully in the light
of my argument I am well in the

3

of varied thickness such allowance to the specific heat of carbon of high temperature and that making the heat of carbon to be a function and a function composed of carbon of high temperature and that the boiling by the carbon was for an entirely different object that is to say if the carbon was of very high resistance and made thereof there would be such a small mass of molten and such a small amount of energy at any one given second that the resultant change in the amount of the current as at the commutator brushes would cause the lamp to show a fluctuation of light. That is the mass being so small it would have the heat almost instantly raised the carbon was made of little mass to compensate or made of a little heavy resistance of a carbon to the temperature for then the raising of the ram would keep the travelling surface down and the specific heat of the whole being thus raised by increasing the mass it would not be so sensitive to slight

changes in the counsel. You will see that this is clearly set out in the Provisional as well as the final specification.

It is quite impossible for me to send Agents over to you as he is attending to all the foreign business & it is far more valuable to me here than he could be in England. He is now preparing foreign cases which will be sent to you to be filed as communications from me through the channels you think best. No patent will be sealed without previous examination of all previous patents by Agents who has gone over the whole of them and has made a Digest for reference a copy of which is enclosed herewith as it may be useful to you.

Regarding the Radial Arm Drill Agreement I have the one which was intended for the Paris Exposition just finished I have not time to get them now get copied and the Agreement given. I asked you several days ago to know whether the Gramme patent in view of the Vaccinator and Klein

machines in order to determine
12 & in the English Parliament which
would be done agreeable to the
Royal Word, Now what I am about
herein treating on is the whole
of the calendar. In this present & preceding
year the end of the calendar here
becomes an change the calendar here
framed. Therefore for I speak upon
to me as to the Reasons I have
them can with first what he has made
a clear case of the Gregorian
& that it is now used upon the
subject. I am changing of the opinion
that I once was that readers a reason
of every age of the 19 seasons alternate
which was rendered with regard
as to the Epact & now in an Gregorian
Year. I do not like right of the fact
that a Gregorian notion is unreasonable
& this because a Gregorian machine
& Lunar all Epacts values are
~~Gregorian~~ & Gregorian of which notes
a true & would be a mistake to
assume magnetic & Gregorian machines
in Eng. in England & would only be a

[illegible] on the manufacturing coal
the machine not much what I have
done below as in many
cases of which the same account
taken is not equally efficient and only
difficulty can be about

Begin in March and Hadwell
would expect him to will send his
agreement and if we can as possible

Did you find that little agent about
a letter delivered by your friend
Stirling named Fleming to the Secre-
tary Society in the Journal of
[illegible] Society of Manufacturers
Manufactures Arts and Commerce
I have you about you should get a
copy of the proceedings of the Society
and Trade Chemical Society in which
perhaps the [illegible] paper is to be
found. If the paper is not there it
is it might be as well to show it
to Sir William Thompson as well
as [illegible] Edward Sinclair in which
he already very fairly that he did not
find the object of high resistance to compo
but merely explained the idea that what
wanted was rather made of paper.

7

We have tested the Lamp and Lens and Reflector same as the Balcombe that last with one dress a little ~~more~~ ~~thinner~~ thinner. It was intended to burn 150 B Compo but it is so very economical and is of such very low resistance that we usually burn 200 B light at 9 p.m. candle power and it and it was only 150° degrees Fahrenheit after burning one hour and a half, I propose to work this ~~machine~~ machine with ~~for~~ any ~~other~~ other machines by the next Tuesday or Wednesday. Then have Napkinson test it and Howell did whom papers I sent you and also Sir William Thompson and I think it will be found that when left the new power is taken out of the machine it will be 99% made of which 91 or 92% is available ~~power~~ for it.

In case you might order three Lighthouse machines for Covent Garden to go ahead & make them as same different ways to study the price and going to work them with well as the dimensions of the lens and

Dear madam the immediate expenses in the removal of special tools the making of which can only be undertaken on such premises large orders

We are sure much will expect to start putting together our large dynamos immediately for the Home Town Station

I have just now have already written to Sheffield as the Augers with 2c Seventy Eight meters and 5 Fifty Eight meters. These meters are remarkably accurate. They beat anything ever got up. They are cheap & reliable. We will have to provide them with a pair of crooked arm balance scales and 2 dozen weights. Have a fast man at last to assist in the work I think a foreman Chemist would be too good a man as could be got and I think you will find many of them in London who will work for a moderate salary

The dynamo that went yesterday will drive all the lamps you can put on it that the Engine will take care of as the biggest man can handle Yours will show you some of the

and then ask compositor to explain
which machine that can operate
upon the wooden machine and thereby
have mechanical making a difference in the
light. That is respecting one machine
that is running full speed the other
one is only half speed upon the second machine
running it requires the time to it
take half the load then diminishes the
first machine and then it will take
the whole load. This answer explains
the light and also the candle
power could be clearly
brought back by the operation. I do not
think it explains male more than
there is from candle power difference
in the light. In this way there
was only required one engineer
and the whole attention could be paid
to one machine. I do not know whether
I explained it before but I think it
would be a good idea to have a
double rod to turn the machines
with. Also mark on what I can do
for you in any respect. In case of
mechanical failure machines are working

water jackets put on all of our
bearings. Since then in hot days
it would be a good idea especially
in the Central Station to run the
machine slowly and with a coarse
oil file smooth off the commutators
and re amalgamate it. In this way
you will obtain good commutation
down very ~~slowly~~ smoothly. In our
Central Station however we are
arranging the commutator strips
so that they can be removed and
unscrewed so that the whole com-
mutator can be changed by screwing
in new strips and made entirely
new in about three hours and as
we can have machines idle at all
times in the Central Station we shall
not have any trouble about the
commutator business.

The reason why this last machine
is I can well spark more with
a full load is because it requires
an exceedingly low internal resistance.
I call it a 200 horse power
cylinder. Hence when we have all
that required by the Commutator

Much of mean a very great deal,
It is almost equal to three of the
Price machines multiplied and added together
The circulation of the Engine being here
Thirty strokes while this is only twenty
eight ten strokes does an eighth ten
thousand which is more than three price
machines multiplied and added together.

The Pistons were not rent on the
Occasion as it needed a little knock
and pounding when we took the
Engine down. But it is Philadelphia
to test it and perhaps it will
Give less trouble. Which you need it.
Before setting the pistons the Cast Iron
was bar and Chamfered round and
while the Engine was churning 250
lbs. the Packing which is the same as
Emmet normally was up from 125
to 135 lbs the Packing Surface should
be carefully watched a small chimney
is made when down from 135
to 90 lbs inside of two minutes. If
this have a good draught then
One gal two hundred horse power
will [illegible]

because what we did with them of them
of them what you would it the
except. We of them were we up in
the camp Falmouth, where a man
ask night and day to keep a constant
watch from Saturday
night, the anchorage of all the camps
was 12 or 14 fathoms, near all
[illegible]. We made a number
of fires round the camp except
that from the camp were not
much enough to annoy the enemy
at the mouth of our boat because
the appearance of the flames. They
saw a very little light. There in
a few days the boats
were pulled with difficulty up
creek.

Then we had our guns were
with the consent of getting high
to replace by sailing among to
the boat that the police pulled
their arrow with, from the whole of
the country were exposed to radiate
except here with [illegible] about
four of the other and [illegible] were
[illegible] it a very [illegible]

Armenes b gne ces exacty what
the cause.
Jayes below Jaw 29th. Letters to
Rev. & Mr John Rudkin, one at
Ven. gave name here
we have chapel dynamos
gave as follows—
Oct 4th 3 ℔ machines
" " 1 C. (Central Station)
Oct 25th }
Nov 2nd } 20 ℔ machines.
Nov 11th 4 " "
" 17 6 " "
" 19 2 ℔ " for motors
Feb 13 1 C. (Central Station)
We have supposed the Oct ℔. ℔.
gave used for the same account the
Nov 4th 3 ℔ dynamos
" 10th & 11th 17 " "
2 Mr. & Mrs. Rudkin gave gave
explanation given above.
Two pupils Mr Rawlings
Irish Church Mr Charles & can write
and Chr. accept the Invitation that
I was feeling as have more
opportunity of personal guidance

1

Dec 9. We might consult with Mr Serpent Morgan as to whether that Board when it arrives in London Mr Morgan put the Square question to Serpent Morgan as to whether I have ideas of business and whether I can conduct general large manufacturing establishments besides superintending the installation of the Light here, having no small say in the placing of the various combinations & condensing experiments in half a dozen widely different lights all at the same time. Colonel Morgan & Co do not need such men as he. However on they cannot certainly not have put into the Edison Light the amount of money they have simply on my calculations as to ultimate success. They do not usually go into business on the said assertions of a flighty character.

Very truly yours

T. A. E.

Condition on which I agree to accept said [illegible] as a Board of Consulting Engineers

New York Nov 16th 82.

E. H. Johnson Esq.
57 Holborn Viaduct - London E.C.

Dear Sir:

I am addressed with instructions from Mr Edison forward herewith the papers for English Patent No. 43, 1883 which you can have prepared the necessary papers and drawings for formal presentation. Mr Edison instructed me to advise you to make arrangements for the prosecuting of the fourteen English Patents, for which you will the four-teenth date from time to time. He wishes the patents to be taken out as communications from him. Before preparing this case, I made a very careful examination of Mr Edison's English Patents, and found other English Patents that will have. Our set however is not complete, and it would be well for your solicitor to examine the Patents for a year or two past before preparing the formal papers.

Please keep me informed of changes that may be made, dates of filing &c so that Mr Edison's records here may be continued.

I have forwarded to day, a copy of the executed papers to my Bachelor at Paris, so that Continental Patents may be procured from

New York Feby 14th 82

Chas. Batchelor, Esq
No 33 Avenue de l'Opera Paris

Dear Sir;

In accordance with instructions from Mr. Edison, Director I copies of papers which have this day been sent to Mr Johnson to be patented in England. The devices are new and are of value in insulated lighting. If you or your people think they are of sufficient importance, they can take out patents on them in the Countries under their Continental.

Please notify Mr. Edison or myself what the decision is in the matter, and in what Countries patents are taken out, giving

3.

that point. If it is desirable to delay the filing of the Continental cases, you will please communicate directly with him. You can refer to the case as "Continental No. 33", in writing him. Your position for might be able to suggest an arrangement by which correspondence between you and Mr Batchelor with reference to each case could be obviated.

Should please me greatly to have the benefit of your solicitors' criticisms on the preparation of Mr Edison's cases from this time forth.

Yours truly

Jas. D. Bishop

Cor. P. A. Depew.

July 16 — 2

W. E. Forster,
Western Eastern Telegraph Co.
Paris
France

Dear Sir

Acknowledging your letter of June 8. 82. Mr. Edison desires me to write you that he has the petition open to file your case.

Yours truly

Richd. A. Dyer.

dates of filing, patenting &c in each country, so that Mr Edison's record may be kept up.

It may be necessary to delay the filing of the Continental cases until the English Provisional is filed. Mr Johnson has been written to communicate with you on this subject. The English case is numbered 4 3. —

Yours truly

Richd. A. Dyer.

July 16

Messrs. Hilton
58 Temple Place
Boston Mass.

Dear Sirs

Referring to yours of July 13. & letter written by the late Mr Williams clerk to the subscribers, we enclose the agreements duly executed by us, being returned to us.

Yours truly

July 16 2

E. C. Hall Esq
No 4 Exchange Place
City

Dear Sir

Referring to yours of July 13. & letter written by the late Mr Williams clerk to the subscribers, we enclose the agreements duly executed by us, being returned to us.

Yours truly

305

July 16 — 2

W. L. Lopez
Collection
Socorro Co.
New Mexico

Dear Sir
Referring to your letter of July 6 82 Mr. Edison directs me to state that he does not know of any

Yours Truly

July 16 — 2

K. W. Hawkes
Care Sun Circ
7 and Chestnut Sts
Chicago Ill.

Dear Sir
Referring to your letter of July 8 82, I beg to reply that I have completed the electric motor and have it in successful operation at Menlo Park on two miles of track. We may want two or three more like yours & employ about 130 men.
I have decided not to lay wires in the state in New York, to supply light and power for domestic use, and distribute the current like gas and sell the same by meter.

Yours truly
Thos A Edison

308

6

Feb 1st 2

17th Feb 1882

M. Charles Ballière
33 Avenue de l'Opéra
Paris France

Dear Sir

Enclosed you will please find the Address of Mr. Edison by C. Simonnet from Paris under date June 21st 1882 - as soon which as superseded, send us your consideration. Also enclosed please find bill of Valentine dated Wheeling Feb 3rd 82. which please pay.

Yours Truly

Paul Lucill

M. A. Darnton Esq
Fifth Avenue Hotel
City

Dear Sir

I return you Johnson opinion on Dolbear Telephone I have not the time to hunt up that reference I think you can manage to find it yourself on the information I gave you

Yours Truly

Thos A Edison

New York, May 17 / 2.

Theodore N Vail, Esq
Bell Telephone Co. Boston.

Sir, Mr Edison handed me the papers prepared on the part of your Company with relation to the automatic cut-out for magneto call.

He was satisfied fully with the spirit of the arrangement proposed by you, but not wholly with the form. He does not desire to transfer the invention and prospective patent while it is uncertain that he has any property to convey; and, since the agreement on your part is conditional, the part of the agreement should fairly be placed on the same conditions. On the other hand he is willing to bind himself to the fullest extent, to transfer all rights in the invention and patent, when the patent is granted, to your Company.

Return the papers prepared by you, and inclose the agreement which I have prepared, embodying the substance of your Edison's views.

Please let Mr Edison directly or through me, know your views upon the matter, at your earliest convenience.

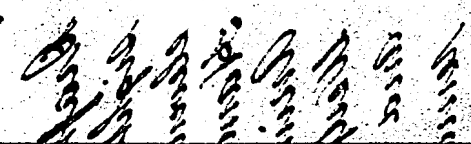
Respectfully
Rich'd N. Dyer.

Feby 18th

C.C. Spiers Esq
23. Murray St. City
Dear Sir.

I wish to withdraw the order for Harrison's Digest & substitute "Higgins' Digest of Patent Cases." Please send as soon as possible this book and also "Agnew on Patents" before ordered.

Yours truly.
Paul Lewis



Rec. 30 Sept. 2

Calle Ancha. Sept. 2.
Carlos Ibañez &c.
Dear Sir.

I have just
had time to write a few
lines to say I received
your letter of the 24th
ult. & shall attend
to the business
therein mentioned.
I remain with
great respect
Dear Sir
Your most
obed. humble Servt
Thos. P. Cope

£ 2 . 18 —

Thos. P. Cope

Paris

Drawn to day three
days sight on Spain under Amsterdam
brands. Shipped Antwp Maerland
Animosity Capt. Thos. Cass for Adjuncts
~~Lisbon~~ Hamburg viz. Weiland 100
Cases Jam Aquat accord 100
Cases Italian Sundries

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York 7th Feb 1882

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

Mr Chas Dear Sir

I received your bill for goods ordered from your branch.

From the statement you will notice that I have drawn on Messrs Rae & Co for £2963-7-6 being Balance at 4/50. The 1st draft you drawn at three days sight dated 11th Feby 82. The memo at the bottom of the Bill, and the Bills of Lading attached will enable you to identify the various shipments and enable you to obtain the Exchange.

The shipments made by Normandy and the Dynamo (Crocker Wheeler) to complete the plant ordered by the Compagnie Electrique left Havre on the Normandy 22nd. The two Steamers Bretagne & Amerique for Antwerp will go by Steamer leaving 25th inst for Bill of Lading for Dynamo sent J. J. Cadwalader which will be forwarded you will notice that many Electrical machines mentioned. Have also come Lamps from Bergmann & Co on account of order for 5000 Electric Light

Y

Sundries for Antwerp. We shall charge
your account on our next account

In addition to the two lots of
Cocoa Sundries — one to Antwerp and
the other to Hamburg we get our
Correspondents in the Preparations of
Samples things to be sent you from
the Expenses of the Isolated Cay here
When we notify you that we have
completed the Shipments on Rice two
orders we should be glad to have
your views as to whether new estimates
on the Preparation of Material and you
to a Counter and Invoice to the
requirements of your Agencies. We
should also be glad to hear from
you as to whether all Shipments to you
of 60 & 80 Light Flasks contain about
the right proportions as to the mode
of testing the correctness of our
Estimates so far as to receive Cautions
from you on the subject.

Our Shipping Agents (Maynard
Penney & Rackley) send to Messrs
Penney & Rackley Jamaica Bills of Lading
for all Shipments they make to the various
European Ports for your account

Also any explanation that matters would be expected were the various shipments consigned to Maynard Perry & Francklyn our agents at the various Ports. They would receive Bill of Lading & effect a clearance of the goods & notify you & then you the proceeds of sending Bills of Lading direct to Paris & from thence to the Port where goods are shipped. We would of course advise you direct by cable & send you a duplicate copy of Bill of Lading (as we are now in the habit of doing) attached to the various Invoices. In this connection we enclose you a list of Maynard Perry & Co agents and should be glad suggestion meet with your endorsement. Please make the following entry in your Code Book:—

Consignat — Ship to Maynard Perry & Francklyn our agent at —

Our cable address as to which shipments will be consigned to be when

Yours very truly

Thos Appleton

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, [illegible] 188[illegible]

TO
[illegible]
[illegible]
London

Dear Sir,

Copy of cable sent as follows:

[illegible] [illegible]

Lowrey cannot approve sale Domestic Electric Company Limited

You will understand from the above that I do not approve of the proposed Company to purchase the arc light referred to in yours of 21st [illegible]. I do not believe in the particular Arc Light you refer to and furthermore I do not see the necessity for an Arc Light when we have an Incandescent Light which is capable of giving any amount of candle power required as you will shortly see from the Light given by the Street Lamps which I am going to send over for use on Holborn Viaduct.

As to selling the plant you obtained to the Domestic Electric Lighting Company I would point out to you that my Electric Light Patents are not owned by me for England & I am

I have made it my business to get every information I could respecting the Canals in England. I might also add that I have studied the Engineering that you taught me. Plans in order to explain my ideas in the countries which are covered by your contracts with me. Success in those countries depends entirely on prompt action. We must occupy the field before others can get well established and I know that our mutual interests would be best secured by the immediate installation of the Steam Plant you have on hand in one of the different cities of the various countries referred to in our contract.

I shall await with pleasure the receipt of the analysis of comparative prices you promised and will examine it carefully & then write you my views on the subject.

Very truly yours

Thos A Edison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE.
New York, Feb 1st 1882

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

Dear Sir

I beg to confirm cable as follows

Electric Feb. 11. 82

Paragraph in duly already
Mail Advices due Have ordered for Capt
Recording Phonograph

Spare Feb. 15 82

Paragraph duly sent
Mail Advices by Steamer Skipped Regina Leave
Feb 28 Instructed Cancel Recording &
Reproducing Machines

Spare Phone Feb 16 82

Have Cancelled Arrangement
Proposed Letters Reserve Space Contract Paper
& Cable Results of Tests Well Pleased Phonograph
Receiver Have Ordered Skipped Regina &
Instructed Cancel

Spare Phone Feb 16 82

Have Written of Cable
Extras Wished Have Phonograph & Have Sent One
Each Contract Each Basis Tests Would Like to
Secure Receiver

2

6 June 1852.

Mr Barbauld's letter of contract signed Paul & Commissioners minutes written & Master Ship Arrived.

10 June 1852

Paul's letter written & despatches closed & sealed. I will write Mallet's and Barnes's which Paul's Letter will give you back by this Evening.

You will have heard today from Mr Babbage that the English Contract has been signed. My letter to you by last mail contains explanations as to the big Dynamo & meters to which I have nothing to add

As to the power of attorney for the Colonial Agent Mr Lavery informs me that it was sent forward this morning. There is no contract existing as this & Mr Babbage & Mr Lowrey name need not have been mentioned in the powers sent out by you. My arrangement with them is only as to a division of what I get & has nothing whatever to do with the payments to you.

Yours truly

Your obedient servant
[illegible]
of Engineers by Mr Bourne
H. Bessemer

26th Feb 2

X

M. L'Estrange Esq
41 Kensington Pl

Feb.

Dear Sir

Referring to your favor of the 15th ult. and to that part of the date for the Rent & Taxes of your premises.

Lucas's Agent has been desired to make the necessary alterations, & the Landlord's Surveyor has been with the Agent, but the Agent has not yet received the Surveyor's report, so that I am not able to say when the alterations will be completed, but I hope it will be done during the present month.

Although I have not the pleasure of knowing you personally, I beg to assure you that I shall not be disposed to be unreasonable in the matter of the Rent & Taxes, & I shall be glad to see you at any time you may call.

Yours truly

first and [illegible] Prof Williamson in which he calls his understanding exactly what he does not explain to him and if he (S) understands the principles governing the construction of a Low Head Dynamo. My impression is that he does not and that he [illegible] under a misapprehension as all our investigations seem to prove that he does not need had such an idea.

I spoke to Mayor Eaton about making arrangements as to combining on the [illegible] the regulation of the speed of [illegible] against Brush but he does not seem to have attended to the matter. Will you please speak to Gardon about it and I will go and see him myself

Yours very truly

Thos A Edison

New York Feby 20 2.

E. H. Johnson, Esq.
57 Holborn Viaduct London E.C.

Dear Sir,

I forward herewith English cases Nos 44 and 45, to be examined and prepared for formal presentation by your English solicitor. Please inform me of criticisms.

The corresponding Continental cases, which I have this day forwarded to Mr Batchelor at Paris, are numbered 34 and 35.

No. 44 presents one of the ways of avoiding Siemens' patent 2006 of 1873.

Yours truly
Rich[d] A. Dyer.

New York, Feby 20 2

Chas Batchelor, Esq
33 Avenue de l'Opera Paris.

Dear Sir,

In accordance with instructions from Mr Edison, I forward herewith Continental Cases Nos 34 and 35, which the parties connected with you may take out in the countries controlled by them if they see fit. They are both important matters - the first covering the only way that large and efficient Pacinotti machines can be made, and the second being for some broad principles in mechanisms for adjusting commutator brushes. Please keep me informed of actions taken with respect to these cases. The corresponding English cases, which I have forwarded this day, are numbered 44 and 45.

MONTH

New York, Feby 20th 1.

Chas Batchelor. Esq
33- Avenue de l'Opera. Paris.

Dear Sir,

In transmitting Continental cases Nos 33, 34 and 35 I omitted to make mention of the Powers of Attorney that are required. Not knowing in what countries your Company might decide to take out the patents, I did not prepare any Powers of Attorney.

Your solicitor can forward the necessary Powers, and a number of blanks for future occasions.

These Powers then send with each case. In cases 33, 34 and 35, there is insufficient time for the Powers to be sent here and returned, since the U. S. patents will not be issued probably for some time to come, and the English protection for six months will only be in the shape of a provisional.

I would like very much to have the benefit of your solicitor's criticisms on the preparation of these cases, and would also be glad to have him send each pamphlete relating to patent practice from time to time as would be interesting or instructive.

Yours truly
Rich. N. Dyer.

21st Feby 2

Theodore Waterhouse Esq
1 New Court
Lincolns Inn
London W.C.

My Dear Sir

I duly received your favour of the 17th inst enclosing a Copy of the Judgment in the Carbon Telephone case which I read with great pleasure.

I am absolutely overlooking to me that the Specification of the Carbon Transmitter should have been so drawn as to include the Telephone and other Patents for Electric Telegraphs which have been declared void.

Considering the great controversy which has taken place on the Carbon question and the many doubts expressed as to the validity of my Patents the result obtained does all that could be desired & the Court have declared Eight Patents valid and only Revoking Claims out of Eleven, as did my Solicitors & Counsel before the Trial (even Counsel for the Defendants) and the Public & Press generally the unanimous opinion of London Expecting by

In connection with
I would hereby say that I
fully reciprocate the very cordial
feeling that each may entertain towards
the visiting Shareholders in the
respective Companies so that the partnership
between the A.T.&T. Shares should be
of the most harmonious and friendly
character. I am very pleased that
on this occasion I should have
with me
of the same gentlemen who
entertained us in England,
and feel sure the association
may
[illegible]

Thomas A. Edison

FROM Per S.S. Gallia

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 21st Feby 1882

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

My Dear Sir

In compliance with the request contained in your personal letter of 8th inst I have today sent by Wells Fargo Express Co a photographic outfit, each of which he wrote with the compliments of Thomas A Edison. The package will go by the S.S. City of Montreal leaving here on 22nd inst. & enclose you shipping receipt.

As I write the following letter has been brought in with some more English mail and I hasten to give you a copy of it as it will interest you. Edison has not yet even seen it

Post Office
London Feby 10th 1882

"My Dear Edison

I have received your letter of January 22nd with a great deal of pleasure.

I have never ceased to regret our estrangement and I am glad to think that bygones can be bygones

I wish you every possible success in your present grand

I want and I congratulate you sincerely on what you have done already

Yours very truly.

Wm. M. Tweed

Now that you have!
My Friendship would prompt me to send a copy of that Lovely Judgment to-day I acknowledge but I am reserving things and got to send it myself

Very truly Yours

Samuel J. Tilden

Hon. Wm. M. Tweed

February 22 2

Friend Johnson.

I was very much pleased to hear from you as to the result of the Telephone trial at Edinboro, and to learn that my invention of the Carbon Transmitter has been declared to cover the so called Microphone. I read the evidence given by the various witnesses. and was extremely gratified at the positiveness of Sir William Thomsons testimony

This decission strengthens my belief that when my Electric Light patents, which are much stronger than those I have on the Telephone, are contested in a British court. it will be found that they hold the monopoly of the system of Electric lighting by Incandescence and that we shall have good reasons for mutual congratulations, just as we have in this Telephone decession.

Yours

Thomas A Edison

July 23rd 2

William A. Lecore Esq
Grand Fellow Craft of Great Britain
26 Bridge Row Cannon Street
London E. C.
England.

Dear Sir

Referring to your favor of 6th inst- I am sorry to have to decline your invitation to pass a communication for me as a Grand Officer of your Society. My time however is so entirely occupied in Supervising and practically overlooking my various undertakings that I am afraid to positively assure such regards as you ask of me.

Yours in the Mystic
Very faithfully Yours.

[signature]

342.

6

Feby 28— 1

U.S. Capitol
Rec 28 Adjourned
to

Feby 23— 1

Lt. T. Brooke
Flags Steamer
Ex Warren & Providence 18
Coney Island N.Y.

Dear Sir

My Dear Sir

I am desired to inform you that the Commodore seeing that a communication is not expected to be received from the Coast Survey this session of Congress has directed that the Steamer Fulton shall not be employed on that service this season

I hope the Light will be all right at the Commencement of Lighting Office

Did you hear from Mr Stevens about the Telegraph Light in England

Yours truly

Yours Truly

Alex Dallas

343.

July 23 — 2

Messrs Leslie Nye & Co.
62 & 68 Nassau Street
City

Gentlemen

Enclosed herewith please find letter from C. W. Huntington under date July 18-82- address to be as indicated to Leslie Dyer.

Please give it your attention and oblige

Yours truly

July 23 — 2

Mr James S. Hyde
230 Broadway
City

Dear Sir

Referring to your letter of July 20. Inst. beg to say that we have your order called & shall be here Saturday Morning next- and Saturday Evening Inst. I cannot say for certain.

Respectfully Yours

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 23rd Feb, 1882.

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

My Dear Batchelor

I have your letter of the 21st re to lamp which came duly to hand. Mr Edison has asked me to reply to it personally

I clearly remember writing you a personal letter and the subject of which was at Menlo Park. Edison also remembers having done so & he remembers very well the form for which information on Kahnweiler which I was not sufficiently familiar with to be enabled by writing about it without being annoyed by him. Explained fully the reasons for asking the questions & however that letter must have miscarried. I cannot tell you the date of it as at that time I was not in the habit of dating letters carefully as I personally & personally. I remember that it was not until you were in Paris that Edison & myself commenced seriously to consider the advisability of manufacturing ourselves.

I am glad to receive your letter and of your [illegible] I have [illegible] write you

X

facility and the subject of Compo manufacture
& promises to do them some time hence,
as immediately your cable was laid
I took a package & spoke about the
necessity of your being posted on the
subject of manufacture. I shall be and
at home to Sam'l Gamaliel and when I
see Mr Edison & Upton I will draw
the latter attention to my letter on the
subject. I have also given orders to the
Foreman & have also drawings made
of the new Varnishing machine and any
other tools & machines that your Chief Co
think could be useful to Mr Batchelor
as when I get Upton's letter and these
drawings can well be in preparation of
all things made ready for use.

I have also given orders to the
Foreman Machinist to prepare drawings
drawings of all special tools and machinery
used in the manufacture of Carbon
Plates and D. Dynamo. Hope I have gone
a good many degrees for this purpose
and am only waiting Edison's thing ought
to be done & your letter to me to get
working drawings for you.

I have had in my office Sam Cornell

time past reading drawings of the
last Central Station Dynamo built at
a Test Machine which have been sent to
Johnson & Phillips that many changes were
made after the drawings were got out
and that the remainder of the
others have been ordered for the new Yarmouth
Central Station Dynamo & from that cause still fresh
alterations have been made and it would
therefore be useless to send you the drawings
I have until they have been checked.
I can call to explanation in case you
should think me
desirous that you should look the matter.

As to the orders you have been
sending us, I have been doing my best to
execute all that you want but what I wish
the difficulty of one order having to be
fitted in with so many other different orders
been in hand and different establishments
and sometimes those the performances with which
I am not even — I really just one day before
one are ready to ship, I have to very difficultly
in letting you have all you want but I do
submit in one shipment and there is
a fair proportion. Standard as we get a
little backward always hope will get into
their natural groove and then a little

London May

Sir I send you enclosed for your
inclosed Book as we have the average
disposal of all unsold things and
in readiness here. The most necessary
thing is the wall hangings which
I have today been to see Carter
of the Arcade Broad Copper Pot to get him
to hang the same up belonging to the
two enclosed for Antwerp &
Hamburg & he has promised to do so. The
one has of brown wine which your orders
came time last & which was called
for said last week was all ready to go
by yesterdays steamer but unfortunately
owing to a hitch either on the part of the
shipping agents or the Rhenish Custom
left behind & now lying at Gravesend
& send extra steamer will not take
Saturday for Hamburg if so I will ship by
that.

Bergmann is awaiting our Bank
Receipt & then away Cooks & will see
if he has many goods if so will have
an enclosure ship & sail

Yours truly
Edward Lovell

FROM.

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York, 21st February 1879.

TO

Col Geo E. Gouraud

London England

My Dear Col

European Telephone. You will doubtless have been surprised at the delay in setting up this matter. The reason is that Mr Bankes has been at home ever for a long time past. He is returned back in the City again and on the first opportunity I will discuss the matter with him and write you further.

Continental Telephone. Cannot you bring up a settlement of this matter also now? Over a year & think since the business was commenced and the action of the Directors in delaying a settlement so long entirely surprises me.

United Telephone. Is it not about time that this was settled also.

Yours very truly

Thos A Edison

FROM

THOMAS A EDISON,

No. 65 FIFTH AVENUE

New York, 27th Feby 21

TO

Col Geo. E. Gouraud

London Eng

My Dear Col,

Your favor of 14th inst came to hand this morning.

The Western Electric Manufacturing Co. have never tendered me any statement at all of the Royalty due me under the Agreement. Mr Insull has been to Webb who went to Australia for the W. E. M. F. Co, several times and he said that a paying business is being done so that I must be due royalty &c. I have removed entirely the Edison Electric today and will write you again as soon as I get a reply.

Yours very truly

Thos A Edison

3692

New York, Feby 28 '2

E.H. de Lisson, Esq
57 Holborn Viaduct London E.C

Dear Sir:

Inclose English Case No. 46, to be patented according to general instructions previously given by Mr Edison. The corresponding Continental Case is numbered 36.

Yours truly
Richd. N. Dyer.

N.B. The specification is prepared somewhat differently from those before sent, but will explain itself.

New York, Feby 28 '2

Chas. Batchelor Esq
53 Avenue de l'Opera. Paris.

Dear Sir:

Inclose papers for Continental case No. 36, to be patented if your parties see fit in the Countries contracted by them. The corresponding English Case is numbered 46.

Yours truly
Richd. N. Dyer.

27th Dec 2

Charles Batchelor Esq
Paris
France

My Dear Sir

I have the pleasure to acknowledge receipt of your favor of 13th inst.

In accordance with your request contained therein to cable you my wishes in the Name of the Boards of Directors of the three companies to each Name and the President & Secretary as follows:-

"Accept with pleasure nomination of three Companies."

I remain beg of you to advise to the several Boards my high appreciation of the compliment they propose to pay me

I remain my Dear Sir
Very truly yours

Thomas A Edison

28th Feby 2

G. P. Lanigan Esq
47 Chambers Street
Brooklyn
N Y.

Dear Sir Lanigan

Your favor of 22nd inst came to hand whilst I was out of town hence delay in answering same.

Your letter appears somewhat amusing to me inasmuch it is on a subject upon which I obtained my first Patent i.e. an Electrical Vote Recorder but unfortunately, as usual in such cases the anticipated occurred and when we tried to get it before the House at Washington many members (on of them looked exhaustibly hamified and said it would render minorities powerless and would take away their ability to filibuster the chances safeguard of the minority against the tyranny of majority and as a consequence my baby was killed immediately.

If ever any one I had anything to do with estimates of the charges you refer to that I think you had better apply to C. N. Pond of the Pond Indicator

Coy Fulton Street who will give
you any information you may require
on your mentioning my name
Very truly yours

Francis Coyne

New York Mar 6 [illegible]

Chas. Seward, Esq
140 Nassau St. City.

Dear Sir; Your letter of 2d inst, to Mr Edison, relating to the rejection of 1st claim in German Case No 7, has been turned over to me for answer.

This claim is undoubtedly the most important in the case, and every possible effort should be made to obtain it. The appeal of course should be taken.

The claim is not broadly for the division of the armature core longitudinally, to reduce the formation and circulation of Foucault currents, but for a peculiar way of doing this. The claim should not therefore be considered as covering a principle broadly, but under a highly efficient construction for carrying out a principle before applied in a different form. The claim is limited to thin annular disks of metal, with thin interposed insulating material, the whole being clamped or wound together in a solid mass upon a shaft or hub.

The loss by generation of heat in the armature core of a dynamo or magneto electric machine is in proportion to the extent of the separate parts of the core in the direction of the length of the core — that is the cutting length of each part with relation to the lines of force.

The disks used by Mr Edison being very thin, the cutting of the lines of force

3

is reduced to an infinitesimal factor. In addition the fact that the disks and interposed insulation are secured solidly together makes the peculiar core as well adapted for very large machines, where great strength is required, as for small ones.

It will be readily seen that the use of bunched wires, or of thick plates, separated by air spaces, for this purpose, is not the same thing practically. The bunched wires, if not insulated, (the usual construction in Gramme rings) do not prevent entirely the circulation of Foucault currents, and they are

4

much thicker than the individual disks of whether insulated or not Mr Edison. They do not make a core that is as cheap, or as solid and strong, as one made like Mr Edison's. The thick plates separated by air spaces allow the generation and circulation of Foucault currents to a great extent. The air spaces are provided to permit the circulation of the heat which is generated by the thickness of the plates, while Mr Edison's construction does not require the use of air spaces through the core. The thick plates separated by air spaces do not form as strong or as efficient a core

5

as Mr Edison's construction.

Mr Edison's construction is the only one theoretically correct - recognizing the fact that the extent of material lengthwise of core is detrimental, while diametrical extent is beneficial, in that it gives strength and solidity.

In regard to foreign matters generally, I wish to inform you that Major Wilber is no longer looking after them, and to request that in the future you would address all letters relating to that subject either to Mr Edison personally, or to myself.

Yours truly
Rich'd N. Dyer.

7th Mar 2

Mess Dear M & Chamberlain
Enclosed please find amended
Edison Patent Agreement
by which Edison assigns
Edison Electric Light Co
of Europe 65 per cent
and for the payment made
under agreement of Oct 10 by
said Edison Electric Light Co
of Europe Edison Colonial Electric
Light Co & Bramley
Very truly yours
Saml Insull

FROM THE OFFICE OF
THOMAS A. EDISON,
No. 65 FIFTH AVE.,
NEW YORK.

7th March

Memorandum

Edison and Manila agreement
not yet sent. Will look into
matter and write again
shortly

FROM

THOMAS A. EDISON,

No 65 FIFTH AVENUE,

New York, 6th March 1882

TO

EDWARD H. JOHNSON,

LONDON, ENGLAND.

My Dear Johnson,

In enclosing Mr Byrne's account of Mr Prideaux's Report on my English Electric Light Patents I beg to state as follows:

Patent 5306 of 1878. As this patent has no bearing whatever on my present system I think it would be well to take no action whatever as to it as it is possible that in the future some new features may be developed in connection with which some of the claims of this patent might be found valuable & considerable value

Patent 2286 of 1878. The foregoing remarks apply equally as well to the claims in this patent.

Patent 2402 of 1879. Siemens patent calls only for an Iron Cylinder while my patent claims an Iron Cylinder composed of Iron to prevent coal cutting of the lines of force; and there is little doubt but that Siemens Patent would not permit him to use a cylinder formed in such a way as to prevent coal cutting. In this

the magnets acting on that the
magnets have an action which is analogous
to the electro motive force of a battery
and for that reason it is kind of force
we seek and further. For instance if
we take a battery having an electro motive
force of fifty volts and we close the
circuit and then separate the points
as to form an arc, the distance
the arcs can be separated without
breaking the arc will depend on the
electro motive force of the battery.
same is also true of magnets. If we
take a closed magnet and make a
break at any point these poles are
form a magnetic arc and the dis
the poles can be separated without
destroying the magnetic arc will
depend on the length of the magnet.
If in one of the supplied machines the
space between the surface of the iron
revolving cylinder with wire wound
upon it and the face of the polar
extensions is an inch and the field
magnet is a foot long and of such a
diameter that it would contain the
same amount of iron as the wound

contained in the field magnet wheel
is three feet long the electro motive
force would be far less than if the
same main of iron was arranged as in
the present machine. In both cases the
same number of convolutions of wire
and current strength used in the
same. If the present G. Dynamo was
to be turned out flat and each magnet
the extra space would offer a
retardation to the magnetic lines of
force and the action instead of
giving 110 volts would probably only
give about 55 volts. Now if the iron
cores of the field magnets were taken
off and forged down so that there
diameter was reduced and their
length increased to (say) four feet and
the same amount of wire put back
on them it would bring the volts
up to nearly 110. According to
Ampere theory and from what we
know from actual experiments on
electro a permanent magnet may
be considered as an infinite number of
magnets connected up in series. If we
take away a magnetized steel bar

up into a thousand pieces the two
ends of each piece would have north
and south polarity. So with a battery
& one connected up in order a large
number of copper and zinc plates
the battery thus formed will have a
north and south end. If one break
each & it into four each piece
will have north and south polarity.
Now the longer the battery i.e the
greater the number of plates in series
the greater will be its capacity for
overcoming resistance such as the
air space between one and the
metal resistance. If we feed the
same into the long magnet. The
resistance has to be with the resistance
of the magnet that is the number of
lines of force it can furnish but not
with the length or space through which
the lines of force are projected. This
fact seems never to have been brought
out by any person in connection with
Dynamo machines but it is of the
greatest importance. I explain the
reason of my employing long magnets
so that the space between the

E.A.G.

surface of the wire wound revolving
Core — Cylindrical and the surface of the
pole extensions shall become a small
circle so far as magnetic resistance
is concerned. Here is also another
action connected with the use of these
large magnets which is a remarkable
one. That is better to invest in
iron and copper of a certain kind
than suffer from a lack of power
all round which you of course know
but this has nothing to do with the
diameter or length — only with the mass.
This subject is a very complicated one
and difficult to put it in a manner
to be understood.

Patent 29 of 1880. I read the claim in
this patent to mean the method of
regulating and controlling the action
of magneto-electric generators and
governing the electromotive force through-
out a system of conductors in which
systems are electric lamps and electric
motors of the kind and characters
described in the specification. The words
"substantially as set forth" mean
the electric lamps and motors as well

on the method. I think the use of the Electro Dynamometer in a system of Electric Lighting to be placed across the mains at the Central Station is a patentable combination. The method of regulating the electromotive force by throwing in and out accelerators in the field circuit should not be counted on so much as I feel convinced that this has been done long ago - contrary to all patents on this subject. I think that the observations of Mr Bidwell on the electromotive force are correct.

Patent 602 of 1880. Mr Bidwell's construction of claim 1 is entirely too broad. It is a simple combination claim such as is very general in American Patents and I should also imagine, in English Patents. It gives no one right but only its use in that particular combination for that particular purpose. It is used now by us and will be used at the Central Station. Evidently this patent is anticipated to a great extent in a previous patent There is such a small amount of matter in this ~~matter~~ patent that seems to be valid at present that had better be left

alone, and if disclaimed now, one may possibly in the future find that it covers features of great value.

Patent 1285 of 1880. In referring to claim two Weston never used his brushes placed obliquely as they are shown in any publication although I think it must have been a mistake of the draftsman as for the purpose of making the coil clearer. If Weston had done so I should have certainly known it. I think the first claim is all right because it is a combination. The claim is not a broad one for the governing of the motor by a centrifugal governor but for the combination as substantially set forth. However it may be anticipated by the previous patent mentioned but the local battery arrangement is anticipated by the previous patent Regarding the sixth claim I do not know of any case where an electro motor was provided with a fly wheel although it may have been quite common.

Patent 2880 of 1880. In connection with this Patent I think the use of distributing and feeding conductors is one of the most important things in our System of Electric Lighting and while it may seem

on account of its simplicity, not to have neglected any ingenuity or invention it shall be found by anyone who endeavoured to devise a system of general Distribution whereby the candle power of all the lamps shall be practically the same in all parts of the system that he would now advise an insurmountable difficulty which could only be overcome by the use of feeding conductors by which the Central station current could be brought to them by four different parts of the system and thus maintain a constant electromotive force near to all the groups of lamps in the whole system. The more this point is studied the more important the claim is found the feeders will be found to be. It is on these feeders that the closest calculations are to Investment are made but two per cent copper electricity or rather two volts drop are permitted upon the Conductors upon which the lamps are connected while a loss of from five to twenty five per cent can be made upon the feeders according to the cost of coal and copper in different countries and the great difference of loss is made

B.H. J.
110

methods developing the exact relation of the current and the candle power of the various systems supposed the following problem to govern:- A square mile in the City of London 30000 lights to be supplied to 1600 consumers from a Central Station each lights not to vary in Candle Power more than one candle at any time during maximum & minimum consumption: investment in copper to be such that 10% shall be lost upon the Conductors. Devised a plan of arranging the Conductors for effecting this result- all information derived from this patent to be eliminated from the mind. Every patentee could except this one claim the monopoly of the System of Electric Lighting by Jenkins Distribution that is the Distributing Circuits and Feeding in Circuits are a combination to produce a certain result. I consider that such claim a very good one & if a claim for a mere combination. I see that Mr Rodwell, when a simple combination claim is made always rejects it as if it were a broad

claim. are not all inventions mechanical inventions of this same character, i.e. combination claims. How could all obtained except the combination of two or more well known things. He takes them all altogether to mean a novel. nearly all of our American patents are based on these limited combinations. The claims 9 to 12 are very important indeed and it is impossible for me to insist too strongly on the very great importance of this patent as well as on what the first attempts are made at Seneca Dislocation. The twelfth claim is precisely what I did at present at my Mad River Station

Patent 2964 of 1880. I think that claim is good as a combination, claim "In the publication referred to a fly wheel was used in connection with the bobbin itself & the fly-wheel and there was no automatic valve cut off governor and merely a throttle governor which is an entirely different thing. I do not remember any instance where a steam engine provided with a valve cut off governor was ever abandoned

with a dynamo machine whose armature acted as a fly wheel all connected direct. Of course one might get round the claim by using all the parts of my combination and advertise for an Cut off Governor, a Shuttle Governor or your own this claim is by no means a broad one and produced a useful result for the reason that economy can be best obtained by the use in this combination of an Automatic Cut off. I think this be one of those things that the more it is investigated the more it will look and it will prove of importance if it can be held. In connection with the observations on claims 17 to 19 as you know of any person who has mentioned in any publication prior to this patent a method of transferring power from one point to another by means of generators placed in series at one end and a number of motors placed in series at the other end. The use of higher speed motors than generators is a practical one because in practice three of large class moving dynamos

at the transmitting end, and a small
number of small higher speed motors
capable of circulating power in the
local circuit. In this way power
the most real Central Dynamo machine
making 100 revolutions a minute
of 500 horse power all connected in
series by a line at the other end of
which there are to be placed 100 one
inch electric motors. It requires genius
in the thing to make each one of these
motors work 100 revolutions a minute.
This subject is quite complicated and
would take a great deal of time to
explain and I think of these claims
cannot be sought to have been
anticipated by any other publication
or patent or had before the granting
Patent No 240 of 1881. The arguments and
matter already sent you in regard
to this patent we all that we can
I do not see how Siemens can claim
it.

I think we expect that Siemens
want of action against any infringers
of his machine in England or his
knowledge of some previous publication

which you are to procure his patent being declared valid in Court. You should therefore be very careful as to payment of royalty to him, and before any definite arrangement is made with him I should like to know what royalty he wants as I object to be put to expense money in making a machine. Except before giving to excessive demands

Patent 578 of 1880. As to sealing the glass globes it will be found that all the Gericken Tubes which have been thus manufactured have only had a single sealing in each. You can go on any Opticians stock and upon examination will be found by examining closely a fine thread like hole in the seal. In your letter to me of 10th Feby you say you are of the opinion that Swan can use Crooks method any that method is quite sufficient to effect a practical result for if the tube is sealed at "A" direct on the pump &c &c. That would be just like what I had but you go on the assumption that no leaks after end at "A". Now his would do all

[illegible] simply anything of the kind. We decided at "A" high up[illegible] and at "B" and that is the way we used to do. We cleaned them after the pumps leaving a long tube in the camps took them down to the place aboveff and so made another ending place to the camp but we always found there was a little hole. Afterwards we took to reaming it out to the camp. Then awoke off the top of the long tube and revealed a fuel beyond the cab close to the camp and the hole was now there no more. I once exhausted a tube a quarter of an inch in diameter and eight inches long and melted the whole thing together and got right upon a hole right through from one end to the other. If you took a glass tube and melted it without first exhausting it there would be no hole inside at all. The first claim is of great practical value and should be retained as ought the seventh claim. The fifth claim is of great practical value and should be retained. The importance of retaining the eighth claim consists in the fact that it is impossible to make an[illegible]

ends to a single rebut without adding material to the end of the rebut and so becomes a new communication claim I think the claims for the Campo and Rackets are all good but that is a matter for the English lawyers to decide as we do not of course know the practice on these points.

Do you not think that the arguments of Bidwell as to this are that being based on such Indian laws is obviously not a very thoughtful mode of objecting to my claims. I might ask hence we have a system of Special Declaration clause in an Italian Viaduct whether there is any invention at all in the above then? Does not the whole tendency of such Indian laws to artificial restrictions show that my claims should be dated ones that each one should embody some entirely new principle or law in Electrical Science. If so then Mr. Bidwells objection to a claim because it is based on such Indian Law & usual apply to almost every patent taken out.

Yours very truly

Thos Edgeon

FROM

THOMAS A. EDISON,

65 & 67 FIFTH AVENUE

New York 9th May 1882

TO

EDWARD H. JOHNSON,

LONDON, ENGLAND.

My Dear Johnson

I can probably arrange to go over to England on the 20th or 25th inst. or say month. i.e. when we have got the Central Station plant started then and provided the Electricity does not alter in the meantime.

The last armature sent you will prove 25% superior to the one that Batchelor had and will give an economy of about 96% of which about 90% will be available outside when 12 h.p. is being taken off it. It is the most perfect machine we ever made and has only about eighteen thousandths clearance with only the same size as the regular B armature and about the same radiating surface. You can easily 250 h.p. compound and Rankine it will carry 115 to 120 of the 46 candle B lamps without any difficulty. I will greatly astonish Sir William Thomson when he comes to test it. You can put it in any one of the 4 Dynamos and there will be

quarter of an inch, clear proof that you can look through. Get Wm Williams to make a test of it in the same way that Samuel made his test both as to accuracy and commercial efficiency and that convinced that if he makes your test he will have to admit that my machine is the most perfect of all machines, yet devised and leave nothing to be desired on Reeves

These machines are rather costly or rather the armature is. But they can be made quite reasonable providing 100 or 150 were ordered to warrant us in making the lot of special tools to enable us to turn out the work cheaply.

You speak in one of yours letters about some of the machines heating and others not. You know that if the armature are set exactly on the neutral point i.e. the line of the commutator which is exactly opposite the centre of the field pieces all the machines will have the same electric motive force

C.K.O.

provided are the pulleys arranged so
as the three cords pass by the opposite
pairs machines the pairs of pulleys
be, either above the top of the frame
carried or any convenient means removed
from the centre of the directions of
rotation of the adjacent machines the double
motive force of that machine and
will become less near than the
others. If you have five machines
and five of them have the points of
the bodies (or upper-most) towards the
opening while the fifth one of each
exactly right the fifth one will give
the highest double motive power and the
the greatest amount of work and become
related. If two four machines have their
cranks or always up so as to lie on
a line with the closest of the opening
of the frame there will be no current
at all even from the machines and
the fifth one would have to do all the
work so you see by a slight
change in the position of the cranks
will cause a machine to carry an
abnormal load and double the
the cause of your trouble

E. H. D.
H

Please let me have your views as to the disposition of the Bakelite now at Crystal Palace. Jaccard & Lancy wants to make a permanent exhibition of the things there. I want you to tell me what you think about it and when they should go after the exhibition closes.

Swan promised Bakeland some lamps and said he was to get them from Montgomery the Swan Co's Agent here. Bakeland cannot get them and wants you to see what you can do. He wants about half a dozen.

Can you get from the United Telephone Co's half a dozen or a dozen of the Telegraph Telephones made for the Edison & Co's Duplex? They do not use them and I think they ought to let them you have them for me. Bakeland wants one of these.

Yours truly,

Thos. A. Edison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 7th March 1882

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

My Dear Batchelor

Referring to mine confirming cablegram re the gas new clock in Paris & arranging with Col Goddard general agency basis that the payment shall be until Edison shall be in funds to pay for it which will be in the course of a week or 10 days shall receive the money due on account of English and Australian Light Contracts. Then shall in fact have no right to expect it until this payment but will then have a considerable balance to be paid to you.

Gaiffe tells me that you had written him to sell some of your stock to pay for the subscription. I at once asked him not to do so but to wait until I called upon you. Your cable came this morning and the reply I sent you will stand pending your doing anything until you get this.

I probably ought to have advised you that I was attending to the matter for you but in the general press of other matters I arranged it with Goddard

and dear old Mrs A to write you
a few lines.

We have had a very
busy day. It is telling at 39 Hot and has
not rained a few drops all the day and
315. Mr Beaumont is a great
sacrifice to sell at present prices.

Just as soon as the money
comes from London on account of
either the Australian or English Contract
I shall pay you back.

Edward is away on Friday having
a week's holiday & hope he
will stay away a month. He has shown
great confidence in me & I cannot say
in full words how grateful & thankful
I feel for your kindness to me although
with the mark & the shouldering the
responsibility of such a case & time &
time to keep things in order

Very truly yours

Saml Duvell

In all your matters take advice you can
account & am attending to it but need time
I will advise you & settle more quickly
in a letter I have now

St Paul
Edison Lamp Co
Menlo Park
N. J.

[illegible]

Rec'd Nov 2.

Hon. A. Ball
Gr Trunk Rail Road Co.

Dear Sir:

Yours relating to the claim of [illegible] against the Co. is received. Mr O'Brien is now travelling in the Country & will not return before the first of April. Immediately upon his return, I will see the matter & execute your request. Yours truly,

Jas. Thorne Agent.

Rec'd R. R. Report

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE.
New York, 9th March 1887

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

My Dear Sir

I enclose you further statement of accounts up to date showing balance in my favor of $7016.20 which is due now

The twenty plants ordered on 20th February will be shipped as soon as steamers sail. The Rhein to Antwerp passage on 10th the Ocean to Hamburg probably on 18th. As to those for Genoa and Naples I am now getting information as to steamers to the Mediterranean

The nine cases of wire on Bill of Lading of shipment per S.S. Lombard is the loss of wire ordered by cable on January 25th and billed to you 26th February the remarks on the Bills themselves will explain the remaining shipments except the three cases on Bill of Lading of shipment by S.S. San Miguel. These three cases are 4014 05 (2000 ft Lamps) and 4028 (1000 ft Lamps) billed to you on 22nd February respectively

Very truly Yours

Thos A Edison

425.

new york. Mar 11th 2.

Edward H Johnson. Esq
57 Holborn Viaduct London E.C.

Dear Sir;

I inclose papers for English Case No. 47. The corresponding Continental case is numbered 37. This case covers very important matter, which Mr Edison has already put into use.

He desires me to state to you that your Solicitor is of course free to re-arrange or re-group the inventions embodied in the several cases, if he can see any advantage in doing so. The case forwarded herewith includes three U. S. applications; case No. 46 includes two; and case No. 45 includes one. These could all be grouped in one case, or could be arranged differently from what I have thought the best arrangement.

2.

If anything of this kind is done, please have your Solicitor write me so that I can keep Mr Edison's papers straight.

Yours truly
Richd. N. Dyer.

Newyork, Mar. 11th 2.

Chas. Batchelor, Esq
33 Avenue de l'Opera. Paris.

Dear Sir: Inclose papers for Continental Case No. 34. The corresponding English Case, which has been forwarded this day to Mr Johnson, is numbered 449. Mr Edison wishes me to state that your Solicitor is of course at liberty to combine the cases to any extent that he may deem advisable in order to reduce the expense. For instance, all the cases so far sent hyme might be put into one Continental patent in each of the several countries controlled by the Paris company.

I also wish to call your attention to a matter which I have up to this time overlooked in my letters to you.

As experience has shown, many of the Continental patents will be issued before the U.S. patents are granted; and the U.S. patents will be limited to the shortest term for which any foreign patent is previously granted on the same subject. Hence the Continental patents should be taken out for the full terms at the start, and not for shorter terms with privilege of renewal, and no patent should be taken with a term less than fourteen years. This is necessary to protect the U.S. Company pecuniarily. U.S. Dirs.

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 11th May 1882.

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

My Dear Batchelor

A letter came from hand the other day from Alfred Chatney Administration of the Société Electrique Edison enquiring what to send when a plant is ordered. I notice that in your city light plant I am only to send exactly with lamp and the same relative number of lamps to your other plants.

Now it is absolutely certain that some lamps will break the first few nights of running which will cause you continual lamps to replace broken ones. I think you should modify these instructions & let me continue to send the same number of lamps that we have been to you & then you will suffer great inconvenience which we need [illegible] to distant European cities owing to the delay in getting lamps from Newark & Paris to replace broken ones. The amount of wire I am instructed to send seems very small under much less than our experience here leads us to suppose will be required Yours truly Thos A Edison

March 18 2

Wm McAdam

Dear Sir, Florida
Affairs will soon, probably, require you to proceed
there shortly on account of business

Yours &c

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, March 13 1882

TO

EDWARD H. JOHNSON.

LONDON, ENGLAND.

Dear Sir

I am to confirm cable as follows,
Glow now March 82 - Send, Complete for
Our Exhibition Can Engine Six Looking Models
identical figure one Only 7" Edison Light
Twin Diaphragm &c, &c, Other new Novelties
shipped waiting.

Glow Con March 82 Can Send Now wait
Your Order for Our Navigation you Should Have
included order Entitled in Latter account.

Glow Law March 82 Have Received from
Continental Europe.

Glow March 82 Have Cables for
Edison Electric Light Only. Have Made
Similar Concessions Latter, Other Companies
Have Saving as Needed Their Patents.

Glow March 82 Supposing Have
Authority Have Wednesday Continental Number
Four Engine Today California Should Shipped
Forward Are Sent.

No 21

From Bow March 1882. Cabinet 40 31 and 42 are missing to whom did you mail them.

From Bow March 1882. Brad Samuels Dwelling bay from account credit interest from immediate adv the two hundred eight dynamo

From Bow March 1882. Sundries and Fittings into Newer Dynamo can't find the expanded but did not forward

I am having the cabinet in the Telephone Card made for you & will send it as soon as ready

Referring to my cable of 11th inst as to Colonel Light & Indies in the name of Attorney you sent me that all his future inventions are included in the sale. There is certainly regard what was included in the sale as far as much as my interest in the Company I am willing & will not be anything it cannot be expected that I would prevent them with all my future inventions the value of which is

to Parvell may be very good evidence
to the Referral of Revell
Morgan & Co & plac. myd mand Rello
for English Legal account, & gave
remark that the Charge had included
these in the amount to be repaid to
Messrs C. by the English Company &
cannot Parvell out to pay that it was
Parvell's duty to ascertain the amount
Amount (Rupees) should be mentioned
in the Contract & pay same to the
Comp. accordingly after M.r Parvell had
advised pay. as to the amount of
disbursements made by Messrs C. &
Hamilton &c. not to have it examined
by Parvell to include the Legal &
Cabled Charges more especially as many
of the items were things unknown by pay
of which I had no knowledge until the
bills were presented to me

As to Parvell stating one Thousand
Pounds & Interest must have been (if they
have been received) as Remitt has not up
to the present time received them. As to
Parvell saying that he was prepared that
Remitt would demand to be filed in the
British Cabinet Office. I have not yet decided

[illegible] it must be necessary to send it at all. If I am decided to do it must be the first thing I can do in the morning as I must be at [illegible]

Yours truly
Thos A Edison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, March 15 1882

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

Dear Sir

I beg to confirm the following cable
16 mar March 82 Have sterling sight
drafts against shares from Swiss branch
South London Midland Grand Junction
Lancashire Yorkshire Midland Great Northern
Caledonian Great Eastern Great Western
Metropolitan Brighton Chatham Dover
Scotch Northern Glasgow Edinburgh Aberdeen
Dundee Perth Great North of Scotland
Highland Caledonian Dublin Wicklow
Dublin Belfast Ulster Northern Great Southern
Western Waterford Limerick Clare Cork
Bandon Kinsale Cork Youghal Midland Great Western
Dublin Drogheda Great Southern Western
Dublin Wicklow Wexford Waterford Limerick
Western Sligo Leitrim Northern Irish North
Western Irish Midland Great Western Irish
South Eastern Cork Bandon Kinsale Cork
Youghal Belfast Ballymena Portrush Londonderry
Lough Swilly Railway.

16 mar March 1882 Shipped today Three
Hundred Bishop gas Regulators Hamburg
Naples and Genoa plants go Fifteenth Three
Hundred today light under Ancient bounds.

16 mar March 1882 Maria gone under
Iron Magnet and Iron Armature Iron & Machine
heavy if.

The Commercial Cable Company
agreed to circle of 11th inst
Cable go Jamaica by mail.

Cable the armature I imagined
would I anticipate some difficulty in
getting yarn under proper tension

JB

pair against a special verdict and it is often difficult for the Edison Machine Works to get even sufficient for their requirements. I am receiving communications with and manufacturers and if compelled to get all specifications will arrange to send you one and of course that the machine would have already given

James Dredge

Thos A Edison

March 15— 2

Edmonds Esqr

Sir I pay Magneaux bills value being him by your direct under my authority Jean or Jeanne

March 15— 2

Edmonds

Sir Sundaughtsmans light
must await Edisons return about
his wrecks

FROM

THOMAS A. EDISON,

No 65 FIFTH AVENUE,

New York, 15th May 1882

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

My Dear Sir,

Your favor of 11th inst came duly to hand. Mr Sedley and family came per "Gallia" sailing homeward per "Bothnia". I have received my accounts and paid money part to Sedley & Edison Electric Light Co of Europe I send herewith an account against them & tender it to Mr Sedley through you by next mail.

I have received from the Edison Electric Light Co Instalment Receipt in favor of Rowland Batchelor for Five shares of the Corp Capital Stock. I will keep this receipt and pay up further instalments as they may become due charging same to your account. Mr Sedley informs me that he receives check for the third instalment (60%) direct from you

Yours truly

Thos A Edison

FROM

THOMAS A EDISON,

No. 65 FIFTH AVENUE,

New York, 15th March 1882.

TO

Col Geo. E. Gouraud

6 Lombard St

London

My Dear Col,

Your favor of 2nd came to hand this A.M. & I hasten to reply thereto

(1) The Anderson Electric Manufacturing Company is a Corporation formed under the General State Laws of Illinois the liability of its stockholders only limited. Its Executive Office is 220-232 Kinzie Street Chicago Ill. It is now controlled by the National Bell Telephone Co of Boston.

(2) The Anderson Electric M.F.S. Co are not affiliated in accordance with the Contract a Mr Lucas who established the Telephone business there. I do not know whether they entered with them the gentlemen mentioned but will endeavour to find out. My impression however is that they did.

(3) One dollar royalty means one dollar, for each complete instrument & not two

(4) No formal agreement (as provided for in Memorandum 17th Jany 80) has ever been executed.

I wrote the Anderson Electric Co on 25th Feb asking them for an account of Royalties & they have not as yet

to receive any reply. I have today written suggesting that they should see them with reference to the matter.

I do not see how connection between any Colonies or Australia the proposed Mr Edison has to deal with being the various Electric Chairs. They have never been formally notified of the assignment of Mr Edison's rights under the memorandum of 17th January 80, to the Universal Company but in communication with their representatives, in which I have often referred to Mr Edison having sold his rights to the Universal Company we cannot very well formally notify the W.E.M.Co. until the formal assignment to the Universal Co. has been made.

I notice Mr Rendall refers to the assignment of the Patents to the Universal Co. It has always been Mr Edison's understanding that all he assigns is the right to receive royalty from the W.E.M. Co under their Agreement with them.

As soon as the W.E.M.Co reply to my letter to them of this date I will write you again.

Very truly yours
Saml Insull
Private Secretary

New York 16 March 1882

My Dear Sir,

I enclose you duplicate Bill of Lading for Patent model Europa Continental No 11. Please apply to Mr Balcklow for reimbursement of any shipping charges you may have to pay explaining to him for what purposes the Lamps were required.

Perhaps Jensen should apply to Mr Balcklow for all Patent models as he has facilities for making same on hand

Yours truly

Edward Bellamy

P. M. Augney Esq
Philadelphia Penn
Philadelphia Pa

Dear Sir

Referring to your letter addressed during my temporary absence from town I beg to state that we shall send the Electric Pat Pad as mentioned by Mr Balcklow & shall be glad to receive your check for the same & the Time Relays. We shall commence to ship the remainder of the goods on receipt of your remittance for same. Yours truly

Edward Bellamy
Paul Brell

P.S. Mr Augney 27

16th March 2.

J. Couch Esq
Senate P. O.
Washington
D.C.

Dear Sir,

Your favor of 9th inst came to hand whilst both Mr Edison and myself were out of town which please accept. Yrs and apology for no reply being sent you earlier.

Mr Edison will not be back again for a week or so. I will however bring your letter before him as soon as he returns and then write you again on the subject

Yours truly

Saml Insull

Private Secretary

16th March 2

Geo A Blair Esq
Chicago Agency
Edison Co. for Isolated Lighting
Chicago Ill.

My Dear Sir,

I would suggest that you should call on Capt B. B. Bullwinkle Supt of the Chicago Fire Patrol and explain to him my system of Electric Lighting inviting him to see the light and explaining to him fully our safeguards against fire-an advantage possessed by no other Company.

I feel sure that Capt Bullwinkle will especially appreciate this part of our system which it is extremely important he should understand

Very truly yours

Thos. A Ed

455.

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 16th March 1882,

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

My Dear Sir,

I beg to enclose you herewith further Statement of account (showing $1293.25 still to be drawn for by me) together with Bills of Lading attached. These bills include all orders I have from you with the exception of some drawings from the Lamp Factory and machine works.

The two bills of lading for shipments to Edison Electric Company Genoa and Edison Electric Company Naples include (besides the various articles charged on the Invoices attached to them) the Dynamos (three to Naples and seven to Genoa) which were billed to your Company on my account of, last rendered to you

The shipment to Antwerp by S.S. Nederland include three Dynamos (billed to you in my last account) the lamps and sundries which together with three Dynamos found their plants (60 lights) one extra case from Beigmann & Co & nine cases of wire completing order for 5000 Lamps. These five cases were billed to you in my last account.

The shipment to Hamburg by S.S. Gellert

(Bill of Lading No 1) include one Dynamo, (billed to you on my invoice account) the lamps & remains you will receive a per statement attached to B/L and one case (No 501) one per second statement attached to B/L. I thought it as well to send over (No 501) to Hamburg as I thought that probably you might find it necessary to get a permit in order to take some of the contents into France without retaining Paris.

The shipment to Hamburg (Bill of Lading No 2) by S.S. Fellucia composed of the remainder of second order for £5000 Sundries as per invoice attached.

I have also charged you Commercial with patent models (Continental Patents No 4) which were shipped to Mr. H. N. London for delivery to Brewer & Jewell. These models are for use in European Countries the patent rights for which are vested in the Swan Companies. I think it would be as well for you to undertake to supply these models as you have the facilities for doing so

Yours truly

Wm Addison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, March 17 1882

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

Dear Sir

I beg to confirm the following cable to you March 15 Two hundred light dynamos must until Edisons ultimo about two weeks.
To you March 16, Do you require fifty-candle lamps Edison Only two candle already ordered.

Mr Edison called you home back Mr 200 Dynamos must await his return from Florida. He has had now been absent two weeks & I very much hope he will not return for another two weeks at least.

You wrote to Mr Upton stating that you required 50 candle power lamps; a short time afterwards you called Mr Edison for 32 candle lamps. We all know the cards made use upon is dangerous & I think whether you want the lamps or not. Kindly say which of the 16 CP

Yours truly

Samuel Insull
Private Secretary

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, [illegible]

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

[illegible]

4 H 9

the mark.

[illegible] of all Men indebted by [illegible] Bond [illegible] Bought to have Benefit of the Act [illegible] and to prevent [illegible] Creditors not acting all of them [illegible] Act, [illegible] Creditors that the Estate have to appear at Bell. H. [illegible] them will [illegible] attending at the Exp. Bengeman & Comp. Factors also to the Receiving [illegible] Act. The Men [illegible] address to their Debts and Effects to the Assignees that appeared at their Meeting.

The Act [illegible] Comp. mentioned that [illegible] notified Bengeman & Co. Jamp C. [illegible] Bought [illegible] Bond [illegible] the Estate [illegible] to the Creditors [illegible] the Meeting [illegible] Comp. this [illegible] an exact [illegible] claim in the Estate [illegible] & Elcatio [illegible]

means I think we shall be able to keep accounts with the English Company straight. All this of course will give me a good deal of extra work but I shall not mind that provided it is conducive to the better regulation of the accounts which is not certainly will be the case judging from shipments made [illegible] [illegible] all orders [illegible] which have not come [illegible] [illegible] [illegible] [illegible] [illegible] effect

Yours truly [illegible]

[illegible]

P.S.

Since writing above I have been [illegible] by [illegible] Mr [illegible] whom I explained many matters to & said my recollection of such conversation of the time he called in the [illegible] in [illegible]

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE
New York, 23rd June 1882

TO

Alfred White Esqr
Hatton Esq.

Dear Sirs

Your favor of 9th inst addressed to the Edison Co has been referred to me for reply

Please point out to you that this price is the charge for lamps as stated in the Contract in the paragraph in which it is stipulated that I shall supply the English Company with $20000 of Electric Light material.

I think it would be better that all communications in the subject of applications should be addressed to me personally so as to avoid any misunderstandings as to the fulfillment of the above engagement

Yours truly

Thos A Edison

476.

22nd March 2

Josiah C. Reiff Esq
Old Exchange Place
City

Dear Sir

I beg to acknowledge receipt of your favor of this date addressed to Mr Edison. Nothing at all will be done re to Lockwood Union Telegraph Co Five years Contract until he returns.

I will make a point of seeing you either before or after Mr Edison arrives, and let you hear

Yours truly

Saml Smith

22nd March 2

Edison Lamp Co.
Menlo Park
New Jersey

Sir

I beg to return your favor with Contract of Mr Arnold which I did not sign which was handed to me by your Mr Upton.

I have written Mr Arnold and the subject so there is no necessity for you to reply to him

Yours truly

Saml Smith

March 23 1

M. Russell Esq.
1416 West 17th St
City

Dear Sir

Referring to yours of March 1982 I beg to reply that I shall not require rooms as I am about to remove from the city

Yours Truly

Thos A Edison

March 23 1

Alfred L. Moore Esq.
200 & 202 North 3rd St.
Philada Pa.

Dear Sir

Referring to my enquiries about wire by letter of 16th I beg to acknowledge the receipt of yours of 17th inst. and to inform you that I find I shall not for the present require the wire

Yours Truly

Thos A Edison

TO

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York, 23rd March 1882.

TO

Col Jno. C. Gerrard

Edison

My Dear Sir,

I notice amongst the amusements of the Edison Machine works in letter from Edwin G. Wingfield manager & Director of the Edison Pioneer Electric Light & Motive Power Co under date of 21st Inst. of which Co you are named the Chairman & myself one of the Directors. I have never before heard of this Co. and am somewhat curious to know something about it more especially as I find my name is placed on the note paper as a Director.

In this connection I must mention that I do not care to be made a Director of any Company without first consulting & obtaining [illegible] to have [illegible] from you as you very correctly observed a list of the Companies in connection with which my name is used as a Director.

Yours truly,

Thos. A. Edison

March 23 - 2

24th mar 2

Mr. Charles Bourdon
Rue de Lire
France

Dear Sir

Enclosed please find letter addressed to Mr Edison by Julius Einhart of Montreux in relation to Electric Lamps Please give it your attention

Yours truly

Saml Insull

Geo. Place Machinery Agency.
121 Chambers Street.
City

Dear Sirs

Herewith you receive check No 694 of Edison Machine Works for $8737.50/100 for one half of note due by Mr Edison, indorsed.

I will send you the note for the other half immediately upon Mr Edison returning from the South

Yours truly

Saml Insull

194

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 2 [illegible] 1882.

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

My dear Batchelor

Jam [illegible] Bolg addressed to Edison came & had after his departure for Florida & up to this morning he has not received neither has he received me with his address for upwards of two weeks. So I think I had better reply to your enquiry as to special French Wire.

The wire we have at the machine shop is coal & gas from #500 & #1000 & has two distinct ends for the small steel iron plates which form the armature core of a Dynamo and the other for the small plates which form the core of the armature of Central Station machine. We have not as present had a use made for making the Copper Wire. I had anticipated your request for details of special machinery by fixing a little machine which makes and measures off all these special machinery. I gave them under my own belief that you were acquainted with the Superintendents

and Edison will nothing has been
done as to the drawings up to
to the mark. Mr Edison I am told
that a man is now working on
them & will do as soon as they are
ready I will send them on. Don't
you think you could make these
Special Coils from our working Drawings
much cheaper than we can do it here.

As to Drawings of Central Station
Dynamo Edison promised me that he
would give me a letter of explanation
as to them immediately on his return
I appreciate the importance of your
getting them as quickly as possible
& will see that there is no unnecessary
delay. The alterations made since
the Engine Simplex machine was
given was based out make many
alterations necessary & now in the
Central Station machines on account
of Construction, have considerable
further alterations that are not
on the drawings — Never the delay
in sending them to you

Yours very truly

Alfred Cowell

FROM

THOMAS A EDISON,
No. 65 FIFTH AVENUE,
New York, 21st March 1882

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

My Dear Johnson,

I am sending a correspondence of the machine works yesterday ~~asking~~ from the Edison Electric Light & Motive Power Co (Colonel Jaccard Chairman) to Edison, E. H. Johnson & Edward H. Winfield Esq. Directors. I suppose at once that it was one of G. B. Gravenstein's ideas which we have never heard of or had anything to do with & Jaccard has Edison's name authority to use it remembering that I (Edison) do not care to be made a Director of any Co without being first consulted & I should like to have from you at your very earliest convenience a list for the Companies in connection with which my name is used as a Director

You will remember that Edison made you some time ago on this subject of his being made a Director of the Telephone Company & you said that Company have his name down as a member of their Board. It is not right at

y. M.

act that y. K.s. shall be allowed
to Print an Edition or Impression as often
as he shall think fit of his authentick Works
or Copies of Authorized Editions
such shall be have his name inserted
in each copy of them

And have ordered in the English
Newspapers some Reflections on the
Domestick Foreign Registry Bill which
has the effect of Confirmation of which
Company to go into the Municipal
Central Statutes Ordinances Acts of
not being Used in any Particular Case
Regulations that were Prejudicial
to the Eastern Kingdoms that they were
framed by K.E.S. while There was
in London & Moved into Wales &c.
employed at the Court of
was Signed in the Edition that
it was going to be one of the
Editions Companies the Copy that
they Could Printing other Book Editions
Book any Observations with the K.
Printing that the Book is Printing
Impression Falsely Ordered the Act
Ordered to Read Exactly what was
Domestick Reg. &c. Please Reflections

[illegible]

[illegible] Chance got written at the
latest two days after you received
this letter. Explained [illegible]
would stop delay but it is in
the usual way post. I have this
day received a letter from Bates
which upon reading [illegible]
since I left it to mean stop over
week end

As to Chas Telephone for the
United Telephone Co spoken with was
not quite definite [illegible] me. Probably
Edison wants him down what
you mean. But until he hears
letter explained, I suppose no one
me faithfully that he will ship them
it time to be on London [illegible] the
trial. I will write you [illegible]
letter on.

You write as to 32 candle
lamps and Colored lamps received
and [illegible] examples.

You call as to Electric Chan
just to hand. I think we put 2
big. I am sure in a month
as to whether I shall require you
to [illegible] Edison [illegible]

he would call of his own. I do not believe (from reading the newspapers that they can hold up to light) I will read over Edwins letter to you & forward on the subject & take you later — most probably I shall talk upon myself the responsibility of selling as near market value the deceased's farm upon your own

Yours as ever

Lewis

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, Feb 28 1882

TO

CHAS. BATCHELOR,

PARIS. FRANCE.

Dear Sir

I to 65 certain cable at folio 23.82 Direct Cable cost Creation Bailey Fault Million Fee attending Trouble Year Working Form Time if the Currents, direction have been received signed Cablegram

Rob Randall & Engine Cable were elected with Mr Edison after day all the afternoon upon European Light business, moved as par Engine does not Low Bailey Cable Cable in the same direction & Randall rollers and Lewis and during the greater part of the interview but when I got back to the office I judged from their remarks that they had been talking about Randall & Bailey relations with the business of the Companies in Paris. Bailey, according to move is too weak to attend to business, he has according to all that of them do not do so & therefore they dread the consideration that they (Mr Bailey giving no attention to the European Engine

business a belief which is considerably strengthened by the fact that nobody has received any information at all (except your short letters to Edison) as to progress in Paris.

They then insisted that some definite information should be obtained as to Bailey's health. I at once offered to cable you. One of the them objected & said you might gave too hopeful a view as of friendship for Bailey. However I told them that Mr Edison, if he were here would not think of cabling to anyone except yourself & that if they wanted me to cable in Edison's name I should insist on cabling you. Hence the despatch of above cable to which up to this evening I have no reply

Yours very truly

Saml Insull

Secy

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, [illegible] 1882

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

Dear Sir,

I see by cipher sent us from Milan from New York 17th ult. advising draft sent us on 15th inst. draft sent amount

From New York March 15. 82 bill at long sight.

I was under the impression that we were to draw for all things ordered by you — Bank of America employed from Bergmann for your factory — Thought the Société Générale Edison as we had no special instructions from you as to how we were to get payment for goods ordered for the Société Industrielle et Commerciale Edison therefore presumed that our authority from the Société Générale Edison referred to all these consignments you will find in statement of account sent you on dated 16th Feby item for $425 that we should not have drawn for, the same remark applies to $120 in statement 16th month

the present you can put these matters straight with the Canadian Electric Edison

As to your order for Magneto & Armatures were the former will be shipped to you on 29th inst. I have not been confronted with the order for Armatures were. Shipments on this account will commence in about two weeks at the rate of 350 Cbs weekly. Judging from experience with the only people we can get this wire from I rather doubt if they will keep their promises as to delivery. However I will see that it is sent on to you as quickly as possible.

Edison is still away. I do not know when he will return as I have not heard one word from him since he left on 1st of this month - with the exception of a short telegram from his wife

Yours very truly

Samuel Insull
Secy

Letterbook, LB-012

This letterbook covers the period March-May 1882. Many of the letters are by Edison. There is also correspondence by Samuel Insull and Richard N. Dyer. Most of Edison's correspondence is in the hand of Samuel Insull, acting as Edison's secretary. The correspondence relates primarily to electric lighting and to patents. The electric lighting material includes orders for steam engines and electrical distribution equipment for central stations in the United Kingdom and France. The patent-related material concerns electric light and magneto-telephone patent interferences in the United Kingdom, France, and Germany. There are also some letters pertaining to legislation in the United States to protect purchasers of patented articles. Among the recipients are Armington & Sims, Charles Batchelor, S. Bergmann & Co., George E. Gouraud, and Edward H. Johnson. The front cover is marked "1882." The spine is labeled "1882" and is stamped "Edison Letters New York No. 4." The book contains 478 numbered pages and an index. Approximately 60 percent of the book has been filmed.

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FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 27th June 1882

TO

Reeves Armington & Co
Providence R.I.

Dear Sirs

I duly received your amended account together with B/L for second engine. I think the best thing for you to do is to amend an account to the Locust Co for the second engine & get a check from them. Then when you have deducted the engine to us which is to take the place of the second and I will send you a check for balance.

The first engine which has up to this writing not had steam on it in consequence of your not sending one of the pieces which was purposely done as you Mr Armington informed me to enable you Mr Sims to be present at the test of the engine. I have not the slightest objection to your taking any course you may deem to enable you to ensure a proper test — so long as your action does not interfere with us, but this delay will in all probability cause a further delay in shipment of 16 days. This is especially annoying in as much as Mr Sims informs me that he has to

R T

second engine up and working. I am sure if Mr Edison were here he would feel quite annoyed at this further delay especially as in the faith of your assurances to me when I made a payment on account of the Engines I acted to London promising shipment at a date which would have landed the Engines in London about this time

Yours truly

Saml Sewell

Esq

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, 29th March 1882.

TO

EDISON LAMP CO.,

MENLO PARK, N. J.

Gentlemen

I enclose you herewith notes
six to Interest due on $12,000 mortgage
on the East Newark property.

You will notice that it is due
on 1st prox. and should most certainly
be paid in the month.

Yours truly

Samuel Insull

31st March 2

John P. Randolph
Menlo Park
N. J.

Pay the bearer you can pay currently $9.00 per week instead of $8.00 as heretofore.

Yours truly

Saml Insull

31st March 2

John P. Randolph
Menlo Park
N. J.

Please give the bearer Mr E. C. Rowland, a desk in the office & supply him with any stationery &c he may require. He will be engaged on Patent office drawings for account of Edison Electric Light Co. You are to pay him $10.00 per week & please charge on your weekly statement against the E. E. L. Co

Yours truly

Saml Insull

Buy Rowland a Commutation Ticket between Menlo Park & New York & debit same on E. E. L. Co Statement

Rec'd N.Y. April 1st 2.

Edward H. Johnson Esq
No 57 Holborn Viaduct
London E.C.

Dear Sir;

I have to acknowledge the receipt of your letter of the 10th ult., and the letter of our Mr Ford forwarded by you. In regard to my acknowledging the value of our Mr Ford's criticisms, I think the boat is rather on the other foot. My experience has been principally in patent practice in the United States, and consequently in matters pertaining to the English practice I shall have to defer to his better judgment. I hope through our Mr Ford's criticisms to learn the spirit of English practice, and give us the preparation of cases we can rely for advice comment.

Even with conscientious work both here and in London some mistakes will be made, and this cannot be entirely avoided except by a foresight amounting to divine inspiration; but therefore, the mistakes made in Mr Edison's patents have been caused by the want of ordinary care and not from the lack of inspiration. I understand from your letter that you desire me to communicate directly with Mr Ford on the patents.

Yours truly
Richd N. Dyer

1st April

Chas D. Hughes
Case of Lead Bundle
Rahway N. J.
Neither Edison nor myself
will be at Menlo tomorrow
A. Ewell 2

Fifty seven London
Dynamos giving two hundred
~~and~~ fifty Light Music ~~for~~ thirteen
hundred ~~Dollars~~ ~~for~~ within fifty
days. Have answered cash each
cent.

22 words $5.50

1st April 2.

Chloride Paris

Can I obtain adjoining about
beauty shipments by adequate
and adams

April 3 — 2

Chronicle Paris

Radius Tracer wire
sign Sirius not his many months
She wants him home immediately

New York April 3 92

Rec'd M. Clair Esq.

General Manager

U.S. Mint Phila Pa.

Dear Sir:

Enclosed
the agreement in regard
to the mineral rights
signed in Republic Co
by Mr. Osborn. This is the
same agreement we took
from Mr. Clark & Mr. Mc-
Master & Mr. Bingham
Please take the signatures
properly signed acknowl-
one Copy home.

Yours truly
Rich'd M. Dyer

New York. April 3d 2

Dear Father.

Jam letter of the 29th ult. I will account for $70 in the magnetocall interferences received. I have turned the bill over to Mr Duell. Mr Edison will be ready to commence to take testimony on the 19th as you propose. You can give notice for that time at this office. The name as principal witness. John Kruesi, Charles Clerk, H. H. Sawyer W. E. Andrews, Reid Jr. & Abt. I cannot tell what Copies we will want, since Major Williams has the papers and he has not put in an appearance yet. This morning. For your own use, you better get complete copies of everything from the Patent office and charge them in your next account. Mr Edison has signed the agreement with the Bell Telephone Co. for an assignment on his part if he is successful, and a royalty I own them based on some condition. They are to pay expenses of interference, but Mr Edison has the selection of Attorney, and the fees will be paid by him. I shall go to the Park with Mr Edison in a day or two, to look up exhibits in interference.

Yours truly
Richd N. Dyer.

3rd April 2

E. P. Fabbri Esq
3 Broad Street
City

My Dear Sir,

We received a cable yesterday from Europe stating that arrangements had been made with Major Gaulti to represent the Edison Light in Italy.

I thought this might be of interest to you

Yours truly

Saml Insull

3rd April 2

Dear Mr Anderson

Col Goddard spoke to me this morning about the first Porter Allen Engine sent to London. You will find by referring to your account that you paid for it direct i.e. gave the Southwark Foundry Machine Co a check for $2000

Will you please let me know if I am right in my conjecture & what was the date of the check.

You will remember that you paid the Edison machine works for the second Porter Engine sent to London

Yours truly

Saml Insull

10

11

8th Apl 2

B. Landreth Esq
c/o Mr. Anderson
785 Broadway
New York City

Dear Sir

Mrs Edison has requested me to answer your letter of 20th March which came during her absence in Paris.

You are welcome to publish Mr Edison portrait in Photographic & shall send you what it is customary to send name

Yours truly

Paul Lucas
Private Secretary

8th April 2

Mr. T. A. Edison
Port Huron
Mich

My Dear Sir,

I duly received your favor of 20th ult. with enclosure of 100 shares Certificate of Stock in the Eagle Mining Co which I beg to return herewith it being my invariable rule not to hold stock of any Company unless I am thoroughly acquainted with its organization & business

Yours very truly

Thos. A. Edison

19.

3rd apl 2

G. D. W. Swoome Esq
Trenton
N. J.

Dear Sir,

I have your favor of 30th March & in reply beg to state that I see no means of recovering the taxes & I do not think if he could that he would consent to postpone the case.

Do the best you can to get it postponed for a little while longer.

Yours truly,

Thos A Edison

3rd apl 2

Gustavus P. Lowrey Esq
Porter Lowrey Lovell & Co
8 Broad Street
City

Dear Mr Lowrey

Will you be so good as to take the necessary steps to prevent the Edison Music Co from making use of Mr Edisons name. I have spoken to him about it and he agrees with us that it is necessary to take some action in the matter

Yours very truly

Saml Insull

April 3- 2

Col. Geo. E. Gouraud
6 Lombard Street-
London E. C.
England

Dear Sir

I enclose herewith the account of Gouraud against me of £25 5s. 1d. which please pay and charge to my account.

Yours truly

Thos A Edison

3rd April 2

Col Geo E. Gouraud
6 Lombard Street
London E. C. Engd

My Dear Sir,

I enclose you copy correspondence with Mr F. R. Wells of the western Electric M'f'g Co (who is at present in Europe) as to Australian Telephone. I do not understand why Mr Pender should have written in the manner indicated by Mr Wells as I only understood to sell my rights under my Agreement with the western Electric. Doubtless Mr Wells will communicate with you as to this matter

Yours truly

Thos A Edison

Case 43

New York, April 3d 2.

Thos. J. Handford, Esq.
42 Southampton Bldgs.
London W.C. Eng.

Dear Sir: Your three letters of the 9th, 11th and 14th ult. have been received. Primarily as a means of advancing Mr. Edison's interests, and secondarily as a benefit to myself, I am greatly pleased at the thoroughness with which you have examined the cases so far forwarded to you, and have carefully noted the general bearing that your criticisms have on English practice, with a view of drawing [illegible]

Case 43

conformity with your practice.

Case 43-

I have noted the changes in the title and in the provisional specification.

In regard to the complete specification, I see that the changes suggested by you will make it necessary for me to revise the description considerably. An additional drawing will also be furnished showing the modifications illustrated by the present drawing.

Should you want to let me know the latest date I can forward these and still give you plenty of time to

Case 43

3.

Make your examination, and have the drawings and specification prepared. Also see if the necessity under English practice of a full description and illustration of everything referred to in the specification. This is a matter which is every day becoming of more importance here, the Examiners in the U. S. Patent Office frequently requiring the illustration of described modifications. I think however that the claims you suggest are rather too limited. One claim is undoubtedly as good as a dozen, if it covers the essential point of the invention.

Case 43

4. The second claim in my opinion should be broad enough to cover one or two magnetic alarms. It might be about as follows:

1-2 The combination with one or more electrical generators, of an electro-magnet in a derived or multiple arc circuit, and an armature lever therefor, controlling circuits at its front and back contacts to electrically operated alarm or alarms; substantially as hereinbefore described.

The two-alarm arrangement will be shown in the additional drawing and fully described.

The 3d claim should I think also be broader.

Case 43

5.

The arrangement is a simple one, and a single claim to the combination of the two features - our claiming the other - would undoubtedly be sufficient if it is broad enough. It is highly probable that the same result could be accomplished without arranging the alarm in a shunt around the safety catch. One might be an equivalent of the other, but the claim should not be limited to one form. I think the following would cover the point.

3d The combination with a safety catch between the transmitting device and the generator or generators, of an electrically operated alarm arranged to be sounded when

Case 43

6.

the main circuit is opened by the safety catch or safety device, substantially as hereinbefore described.

An electro magnetic device, like that shown in figure 7 of my Edison patent No. 5306 of 1878, might be used in place of the lead wire, and the alarm could be in a shunt around it. I have not decided to put this in the complete. If I do not, the words underlined in this claim can be left out. On second thought, it would not be desirable to put this in the complete. Since my Edison conceives the fusible wire as has been and always

7.
so much as that a magnetic device would not be used. The third part of the invention (the continuously operating mechanism) is a matter of some importance, and should I think be covered by a broader claim than your 4th claim. The two following claims embody any idea of the points involved.

4th As a means for regulating the generative capacity of a Dynamo or magnetic electric machine, or a battery or number of such machines, a continuously operating mechanism substantially as described controlled by the current generated, substantially as hereinbefore

8.
described

5th The arrangement described with reference to figure 2 for regulating the generative capacity of a dynamo or magnet electric machine, or a battery or number of such machines.

You will see that this last claim includes the adjustable resistance. An arrangement somewhat different from that shown in figure 2, although not as good in practice could be used. The armature lever F might be used to operate a current reverser in the circuit of a small shunt winding motor, which

Case 44

9.

could be used to advise the contact lever. Hence the 4th claim as drawn it becomes of importance. I would like to know if it is considered good practice in England to cover in the complete, modifications of a broad principle which is claimed, when only the broad principle adopted as a way of carrying it into effect are set out in the provisional. I would like to hear from you on this point and on my modifications of your 6 Claims. The record of our correspondence I send herewith in the final draft.

Yours very truly
Richd A. Dupee

Case 44

New York, April 3d 2

Thos J. Handford Esq
44 Southampton Bldgs.
London W.C. England.

Dear Sir!

With reference more especially to your letter of March 18th 83 I took to make the following comments.

Case 44

I have noted your change in the language of the description. The claim I do not like for the following reason:
The radial ends bars D, which form a part of the inactive portion of the armature bobbin, are not necessarily of greater cross sectional area or lower resistance per unit of length, than the active bars B. In fact they are shown of

24.

Case 44

2.

about the same cross section. I am inclined to think that a claim something like my second claim, even if more specific, would be a better claim. I understand that both of the same style throughout in Case of engines, shown here used. The guide-plates are the distinctive feature. In view of this fact, I am inclined to favor something like this.

In a dynamo or magneto electric machine, or electric engine, of the type hereinbefore referred to, constructing the interior portion of the bobbin of guide plates having greater cross sections at the ends than the central bars, substantially as hereinbefore described.

Case 45.

3.

Case 45

In this case I will furnish an additional drawing showing the motors as described at the bottom of page 2 of the complete, and a complete description of the same, as well as of the operation of the chariers already described.

I think your claim a good one; but it strikes me that a specific claim to the arrangements shown in the drawings (including the additional illustrations which I shall forward) would be a good claim.

2d. The arrangements of parts as hereinbefore described with reference to the drawings.

Cases #5 and #6

4.

This form of claim brings forward a point of practice. Here a claim can be drawn for a whole thing only. But I have noticed that many English Patents have claims of this character covering each a number of arrangements shown in separate figures. How are such claims considered in English practice? I notice that in case #6 you advise the omission of claims two and five, which are of this character.

Case #6.

I will forward later on descriptions of the operation with reference to the drawings, which you can use with such modifications

5.

Case #6.

as you see fit to make. In the preparation of future cases, I will take care to vary in that respect from our usual practice here. Claims 2 and 5 being for specific features, I can see no objection to ~~leaving~~ them out if you consider that the better practice.

Generally with reference to examinations of English Patents already granted, my examinations are necessarily incomplete, for the reason that our set of patents has been found incomplete on a number of occasions. They

Case 46.

6.

are also at present in bulk unclassified — all electrical patents being mixed together.

You can safely limit your examination to patents commencing with the year 1879.

Yours very truly
Rich'd. N. Dyer.

Case 48

New York, April 4th 2

Thos. J. Handford, Esq.
112 Southampton Bldgs
London W.C. England.

Dear Sir: I
inclose provisional specification in case No. 48 on Electrical Railways. The drawings are not finished, and for that reason I cannot forward the complete case.

The matter has already been delayed longer than it should have been, and I therefore wish you to file the provisional immediately. I have used great care in its preparation, and have included everything of importance that could go into the complete

Yours truly Rich'd N. Dyer

April 4 — 2

Charles Hamilton Esq.
Calle del Monte Esquinza 5
Ronda de Recoletos
Madrid
Spain

Dear Sir

Your favor of Feby. 7. 82 has been by me referred to Mr. Charles Bartlett, 38 Avenue de l'Opera Paris, with request that he give it his early attention

Yours Truly

Peo. A. Edison.

April 4 — 2

Dated
C.A. Bar 156 Clairfield
Ind.

Dear Sir

Yours favor of March 21. 82. Tel. Principle has been applied to the phonograph for exchange but the small Motors have not been reliable in satisfactory

Yours Truly

Peo A Edison

4th Apl 2

A. H. Reed Esq
at Messrs Fenn
Euston Road
Manchester Sq

Sir

I have your favor of 10th Inst and in reply beg to state that I think shewing the case as it is would stimulate upon assume engaged at Cambridge named Cockerell. Cockerell although pleased in the matter is in the action and the same remark applies to Abbott Edgeworth

I am inclined to think that for it is better for Intellectual workers to propose their terms at right as often as they can experience at right which I feel sure Mr Fenn is in my action and Cockerell Natural Law experimental work when so engaged I should recommend shew Fenn as I stimulant

Yours truly

Peter Cunningham

New York, April 6th 2

Dear Father,

Inclose me Edison's check for $30.00 in payment of your account.

Your letter of yesterday has been received. I have not found a chance yet to show either of your letters on the Sawyer-Man matter to Mr Edison. It appears that there is no foundation at all for the statement, made in the affidavits read at the hearing of the motion, implicating Mr Edison; Bergmann's connection with the matter can be satisfactorily explained. Yours Dick

FROM

THOMAS A. EDISON,

No 65 Fifth Avenue,

New York, 6th April 1882

TO

E. G. Acheson

Paris

Dear Sir

Yours letter of 26th Feby [redacted] to hand at a time when Mr Edison was absent in Florida. Upon his return he wrote to Mr Batchelor in regard to matters and will no doubt attain the object you desire

Yours truly

Samuel Insull

Secretary

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York, 9th April 1882

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

My Dear Batchelor

Don't you think it would be a good idea to have Adkeson come over here when we are about starting the Central Station so as to make notes & post himself as to the operation of the Central Station. I think that on his return to you you would then find him very useful in the work of installation of Central Station Plants. What do you think?

Yours truly

Thos A Edison

38.

5th April 2

Mrs Bradley
26 Universities Place
City

Madam,

Referring to our conversation of last night I have again talked with Mr Edison concerning the house at Menlo Park and he has agreed to advance the money required to purchase the furniture up to the amount of $800.00 & has left the matter entirely in my hands to carry I would have informed you of this earlier but I have had no opportunity of discussing the matter with Mr Edison

Yours truly

Saml Insull
Sec'y

5th April 2.

Messrs Cornelius Heins
Providence
R. I.

Dear Sirs,

Enclosed herewith please find check for $1490.00 in settlement of account for two engines as per note at foot

Please return enclosed receipt signed and oblige

Yours truly

Saml Insull

A/c Bill $1500
2½ Com'n 10
1490

Check on A/C 1000
" herewith 490 1490

No. 322,703

April 6 — 2

Journal Paris

Ale for A Lampe

to Jno Grant Cunningham Esqr
Leith Scotland for Sea Stores.

April 6 — 2

6 Captain Lamar Salpetre

Shipped Atlantic.

April 6 — 2

Capt. Lamar

Sundries

By Cash Ded

To Amt Pd

Allowance & Cartage Paid
Lewis Paquin for Carting
to Paquin & Lamar Exchange
Cards & Pilot Boat (8 2) Guns
entered in Philadelphia

Pr Agreement
Red & accepted Copies Do
Packages Shipped on the
Captain & Invoice
Paid Pilot Boat
Paid Custom House

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 6th April 1882

TO
EDWARD H. JOHNSON,
LONDON, ENGLAND.

Personal

My Dear Johnson, Referring to letter & Power of Attorney sent herewith I very strongly object to selling my future inventions & certainly think that in any event the sale should be limited to three years future inventions. My reason for this is that I propose experimenting with a view to getting electricity directly from coal & I think there is great promise of my succeeding & I should most strongly object to part with so valuable an invention to these Indian & Colonial Companies as if I ever succeed it will be of immense value. Have the agreement drawn so as not to include this but it should be done without making apparent what we want to do.

You had better say nothing at all about this to anyone else

Yours very truly
T A Edison

Wt a 3 years sale 7

April 2

My Dear Sir

I enclose you herewith Power of Attorney, as to certain British Colonies, dated 5th April 1882.

This Power is sent to you as it is thought there may be no delay in arranging Papers should an agreement be arrived at as to a sale of Electric Light patents rights in the Countries named. You must on no account make any use of this Power whatever unless you have distinct instructions so to do by cable or letter from Messrs Morgan & Co or myself.

Immediately on receipt of this please mail me a copy of the enclosed Power as we have not the time to get one made here before the closing of the mail.

Yours truly

[illegible]

Newyork, April 6th 3

Rec. M. Vail, Esq
U.S. Mail & St. Boston
Dear Sir:

My views, miscellaneous letter &
the agreement herewith
your Company respecting
Steam, received. Shall
Answer the same next
Mail Boston.

Yours &c
Phos. Ogden

Mr Chas. P. [illegible]
[illegible] Agent
Office

Dear Sir

I have your favour
of even date.
I am [illegible] to say
that I cannot comply with
the request contained therein
as I have on my premises
one as great [illegible] as my
business will [illegible]
to devote [illegible]
[illegible]

Yours truly
Phos. Ogden

One Page

Oct 2nd

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, 6th April 1887

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

My Dear Batchelor,

Your letter of 6th has come to hand while I was in Florida and the engines, which engines had to await my return.

I do not think you should use any more Parker engine for new dynamos. Have Engine is better simpler & cheaper than Porter. I think we shall use Armington Sims Engines altogether.

They will cost you $1800 each packed for export for Providence R.I.

Yours truly,

Thos A Edison

45.

6th Apl 2

Messrs Remington Arms
Providence
R. I.

Dear Sirs,

I duly received your telegram "Seventeen hundred fifty on cars here Please Ship Quick. Foreign shipment eighteen hundred case yours commercial Seventeen hundred Sixty four to us "not tested and boxed" for which accept my thanks

Yours truly

Saml Snell
Lt.

6th Apl

Mr R. M. Hughes
Philadelphia Press
Philadelphia

Dear Sir,

Referring to yours of Apl 2nd I think the best thing for you to do is to pay a visit to Menlo Park & see the rail road yourself. Then you can do by arranging with Mr Chas D. Hughes Menlo Park N. J. who can when taking you over the road explain everything to you. This will save the necessity for any lengthy description by letter which it is impossible for me to write owing to the heavy nature of my work

Yours truly

Saml Snell

48.

6th Apl 2

Frances R. Upton
Edison Lamp Co
Harrison
N. J.

Dear Sir,
Referring to your favor of 29th March, I think it would be very objectionable to publish any promise made to an employee of the Co. I therefore think that the agreement as made by you should be carried out

Yours truly
Thos A Edison

8th Apl 2

Mrs Wm S. Lambert
204 Market Street
near Broad
Newark N. J.

Dear Sir,
Referring to the enclosed bill Mr Edison informs that he does not owe the suit of clothes & that you must charge them to Mr Tier Steward who bought them
Yours truly
Saml Insull
Sec

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, 6th April 1882.

TO

EDWARD H. JOHNSON,

LONDON, ENGLAND.

My Dear Johnson,

I received your cable
Express accept for shipment of 6
Telephones together with my account
against the United Telephone Co amounting
to £ #058.25. which please see is sent me
as early as possible.

As to the Telephone to
the testing of which I cabled on last
Sunday

No 1. One coil coated with plumbago and
with plumbago between. Good

No 2. Coil one fine coated with and mixed
with plumbago. Better

No 3. Coil coated & coil very fine mixed with
slight amount of plumbago. This is a
bad coil as a medium coil. Resistance
when new was 1.52.

No 4. Coil flat coil very fine coated and
mixed with plumbago. Same resistance
as No 3. Loudest than magneto telephone

No 5. Fine flat coated and mixed with
Lampblack

No 6. Disc of steel worked with plumbago.
Not very loud.

We need repeated induction coil

and mix with Vaseline. You can
wash when you need two coats
with the telephone do not work so
well as with three Vaseline.

Now make fluff get some raw cotton
silk, untangle up a lot of it then keep
it until it is all fluffy. Then take some
ordinary carbon carbon, powder them
up + thoroughly mix the powder with the
fluff. Then roll a piece of cheese and
cut it up in 100 inch lengths. Afterwards
pick + work it + you will find that
it will roll the camphor. Put it in
receptacle in Telephone for the button
+ press it down with a flat one
until it is even.

With plumage you can do the
same but you had better make them
solution of gum dextrine in water and
mix plumage to a thin paste. Then
take the fluffy pick in your hand and
work the paste into it afterwards peeling
off the material then obtained until there
are no creases left in it. Now let it dry
for several hours, cover it up and cut
it in 100 inch lengths so that it will be
a fine fuzz. Then work powdered charcoal

into it & put it into receptacle flattening it with flat disc as before

The zinc discs are not cold as we did not have time to work the plumbago in. It should be worked with a plumbago & acetone paste and pricked through so as to get plumbago through the face. Then allow it to dry & rub on another coat without pricking the zinc, then let it dry & rub on another coat & so on the more coats the louder it will talk

All these Telephones are a little louder than magneto telephones

Yours very truly

Thos A Edison

153

8th Apl 21

Chas. J. Bell Esq
1328 Connecticut Ave
Washington D.C.

Dear Sir
I beg to acknowledge receipt of yours letter of 6th and in reply beg to refer you to the Edison Electric Light Co 65 Fifth Avenue New York for all information as to Mr Edisons Incandescent Light.

Yours truly
Saml Insull
Private Secy.

You may possibly recognize my name as that of Col Commanding Private Secy at the time you were in London (1880) as to Oriental Telephone Co. If I can personally be of any assistance to you I shall be most happy to serve

8th Apl 1

Messrs J. G. Brill & Co
Car Builders
Philadelphia

Gentn
Referring to your car No 6 please make the (car body) shown in our Drawing taking exception as to detail from Mr Duffield
Please call come to
T. A. Edison Menlo Park N.J.
Yours truly
Thos A Edison

54.

8th April

April 8th 2

Dear Edison,

I A.B. would be glad if you could manage to come on here about (the) 18th inst to buy some houses & says he would like you & he here to pick them out for him.

I will see you on a check & say Perkins asked you urgently if

Yours truly

Paul Lessell

P. H. Cunningham Esqr
2.3 Lombard St E
Brooklyn E.D.

Dear Sir

We have just received cable from Batcheller as follows Send Cunningham full Stevens how much does he want, Work nine twelve months.

I will certainly be glad for you to call at the office next during business morning & make whatever arrangements may be necessary.

Yours truly

Paul Lessell

If you can come up immediately please do so & meet cable to Batcheller (see) Mess & Co London if Mess

April 8th 2

Dear Father,

Please send for Mr Edison's use, a copy of all the preliminary statements (including his own) in the two interferences on magneto calls.

James Dick

April 8th 2

Alvin Barnell
5th Liberty St
N.Y.

Gentlemen

Please send to above address
350 Shunt (Coil) 2 opposing
Bobbin No 14 (like sample one)
1 Weight Brass Armature part
No 140 used on S.A Edison
Pen Old Style Print
Machine in Basket on New
Line No 26961 Price Per
Hand weight as usual ex-
press one)

Yours Truly
Samuel Sewall

59.

Jay Gould Esq
67 Broadway
City

Sir

I enclose you all the telegrams received at the receiving station when you sent the autographic telegrams to Scranton

Yours respectfully

Paul Sewall
Private Secy

R. H. Rochester Esq
Superintendent
Western Union Tel Co

Dear Sir

Referring to your favor of 8th inst I beg to inform you that the reason I do not get the telegrams you sent from Scranton Nov 20th (#420) so that before doing so I wished to point out certain facts upon which I found myself upon March 22nd or 23rd. What shall I do under the circumstances with the check I accept?

Yours truly

Paul Sewall
Private Secy

60.

10th April 2

Menlo Park
New Jersey

Dear Sir,

Referring to your favor of 8th Mr Edison requests me to enform you not to know of ordering to present your having the belt taken up you had therefore better have it done right away

Yours truly

Saml Insull
Secy

10th April

Messrs Remington Sons
Providence
R. I.

Dear Sirs

Many thanks for your telegram of today I do not know yet whether anything will come of it.

I am very much surprised at not receiving the second engine more especially after receiving your note of last week promising shipment. I do not know exactly how to charge up the action of whoever is responsible for the moral having received the engine after his promise to me or your promise when I consented to his having my second engine

In the future I shall only feel [illegible] I am forced to

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 20th April, 1882.

TO

CHAS. BATCHELOR.
PARIS, FRANCE.

My Dear Batchelor

I have your favor of 27th March. I certainly never did you anything of the kind as I should have no reason whatever for doing so. We must have been mistaken that is all I can say.

I am sorry you should say I know absolutely nothing of my own affairs ever since I left. I used to write you quite regularly and I seldom or ever got any reply and consequently left off doing so thinking you did not care to hear from me. However if you care for me to write you I shall be only too happy to do so. But in order to relieve myself of any blame (real or imaginary) I will proceed to give you a full account of your private affairs as I can off hand from memory & some little data I have me.

Account. This is the one point that I feel I am to blame. I should have sent you forward a statement but you have never asked me for it. I do not see you however I shall go another

2/

week. Meantime I will tell you roughly how you stand.

The Balance to your credit when you left (including amount still to be received by F. T. B. on all European Bonds) was £999.04

Since then there has accrued to you as due on F. T. Telephone Royalty 850..

5% on Furness Gross received on English Telephone 500

Sundry Bills you have paid 92.11

Against this we have debited

Lamp Co Assessment	£000
Eaton Machine Works	4750
Insurance (Calmon)	20
Sundries	8.89
	£778.89

Balance in hand about £220.26

Of course this is very rough as I tell you I will send you a statement next week. Then we have to pay the Lamp Co another £100 on your assessment

the Machine Works £4000 about	£900
& 50 Jo on 7% shares you have	£800
Eaton's creditors will be about	£550

3/

Price you could Del with a Balance in hand of about $650. we have to pay on your account about $650. now as to how to do this in a few days Edison will get about $4000 on English Fight. You will be entitled to about $1400. This will enable me to pay for your part Stock & Lamp Co Assessment & then pay Australia India Canada & Portugal will doubtless be good that will enable us to pay up every & remit your proceeds. Are you prepared Know Saward make any arrangement as to Australia and then pay will be made out of it.

Now as to the Factories. The Machine tools will not if purchased conducted require any more capital & if they should prove a success same can be paid for out of profits. Leases, Licenses, Patents to the Price about referred to. They have been running each way with out from 3 to 5 yrs. all this year. Should decide not pay. My only fear is that Edison may order Shop in advance of requirements for as that

H

will put them in the same hole financially as he has just got out of as in such a case the machine shops will close on him heavily. However I hope that such a state of affairs will not occur again. The machine works should make in my opinion $50000 all the clear this year. It is said to be a very expensively conducted place I am told Dean pays high wages to poor workmen & that the shop is badly managed. I do not of course profess to be much of a judge of such things. They certainly turn out a good class of work & the Central Station dynamo work they are now engaged on seems to be very fine indeed. There are a great many fine tools laying idle which is owing in my opinion to the very reckless way in which Dean treats machinery. If I were a mechanic I could probably tell you more about such things.

As to the Canada Chain bills payable over bills receivable to about $10000. The assessment just made will provide for payment of the

6

Theirs has been paid on the Peters property up to the present time about $1000 and there is still about $11000 unpaid to be paid. This is not included in the $10000 above referred to. If the orders come in, in the manner in which they have during the last few months I do not think the Co. ought to require more than $40000 or $50000 This should enable them to pay off the balance on the Peters property in their capacity. (Of course you know they are now moving to Newark) The question of the money they will require depends entirely on what demand there is for Lamps. Their expenditure at Menlo Park was about $1800 a week say $90000 a year. Presuming they are to come at Newark (I am inclined to think that for some time they will be much higher than at Menlo) & that they sell about 2000 lamps a week they will require at least $100000 to meet their obligations & current bills for the remainder of 82. However this is a bad guess. It is to be expected that the demand for lamps will greatly increase

[illegible]

shouts before long amount to 6000 a week regularly.

Isolated Co. As to yours Clark I told you that yours yours copies & diaries was taken by the machine works & is being paid for by them in Machin Co of course 10% off it is yours. This Company is doing a good business & should make money. Mr Clark is not dealt in. I do not think 20 or 30 shares have passed hands.

Parent Co. I also wrote you as to this as I have stated above your stock will be taken up as soon as Edison has some money. The stock is quoted at 400 to 425 with quite a strong market.

Illuminating Co. There is still about 2 or 2½ miles of tubes to be laid. This will probably finish in about two or three weeks. The Dynamos will be finished in about two months. So in about three months you may begin to expect to hear something of the lighting up. Clark nothing as selling European no value at all. Nominally at 50 to 55. But I do not think much could

to get at that. Are milling nothing at all doing. No bridges. No rollers..

Now do not think I am a moment that I do not want to keep you posted on that I am too busy to do so. It takes me from the time I get up till I go to bed to attend to my business if you do not get what you want write me tell me so straight & I will try & give it attention. Only just remember that a letter in each now & then is somewhat encouraging.

As far as the purely official part of your business is concerned I do not think you can complain of inattention. If you get somewhat muffled at delays now & then remember that we are "busy" and not unfrequently that we have to depend on others to fill our orders & they often delay a good deal. All we have to get for you just now is [illegible] drawings, Special machinery, Brewing & Pumping Engines & Dynamos. The armature core shipments are on this week. The special coils & machinery drawings I am pressing either a copy or to Dynamo drawings. I am now

9/

having the fourth set prepared of Central Station Dynamo Drawings. Each previous set have been altered in consequence of alterations. There have been no drawings yet made for 250 light machines. Edison simply took three fields six coils & three keepers out of 4 Dynamo stock & made an armature three times length of 4 armature. Of course he used a heavier charge & larger & flat plate than with 4. As soon as the first 250 machine is made I will get Edison to give me a letter to you on the subject as to the 250 light machine nothing much has been done with it yet.

Early next month Edison will go back to Menlo Park to live & to experiment. Dick Dyer, myself & Hughes will be there with him. We will keep an office here. For some time longer probably till the Fall. I expect to come into the City three or four days a week.

Hughes has the road running very well indeed. We have over [redacted] miles of track finished now & some

9/

over it with power or five tons of
rail road material at 30 miles an
hour with ease. We are having a
Freight Locomotive built & in case of four
tons each for freight. In about a
month everything will be running and
the economy can be made. Yesterday I
ordered from Bull of Philadelphia
a car about 20 ft long after the
style of a Broadway car only longer.
Edison is going to put a motor
underneath the car & by the use
of a fly wheel & power and
a Mason's Clutch to throw the armature
in and out of gear hopes to run
with a small motor consume little
power & overcome difficulties in
connection with starting. I will send
photo of car when it is finished.
With the present Locomotive a Masons
Clutch is used. They start the armature
running & when they have got up good
speed throw the Clutch in and
so start off. I have considered this
Clutch essential. It is covered by
this present patent. Yours (very) truly
Saml Sneath

FROM

THOMAS A. EDISON,
No 65 FIFTH AVENUE
New York, 11th April 188-

TO

CHAS. BATCHELOR,
PARIS. FRANCE.

Dear Batchelor

Referring to my letter of yesterday, Edison informs me this morning that you are entitled to one fifth of Telephone Royalties and 5%. to the amount on my letter of 4th should have been $200 and $100 for Mexican market. I asked Johnson last night to pay you 5% of the proceeds of the sale of the Telephone shares he has received. But I have since this morning, to learn correctly this. So you should see you get this receive from Johnson about £700.

There is I think an amount due you on Edison American Co. This I will get up before sending statement of A/C which I will do as promised yesterday.

Yours truly

Samuel Insull

Apr. 11th 2

Major L.B. Eaton,
Vice President &c
Dear Sir:

Of the applications for patents of the U.S. which I understand are now allowed, the following have either been patented abroad, or Mr Edison has related after examination that it is not desirable they should be:

Edison's Nos 301 - 331 - 334 - 338 - 372 - 382. Also cases of Wm Holzer and S.D. Mead (Case "B").

The remainder of the allowed cases are inventions which are now in course of protection abroad, and in order to protect foreign interests, the final fees should not be paid upon them before April 27th 1883. They are as follows: Edison's Nos 360 - 362 - 366 - 369 - 371.

Most Respectfully

Richd N. Dyer

April 11– 2.

Messrs Foster & Morgan
52 Wall Street
City.

Gentlemen.

Mr. Edison has signed the agreement referred to in yours of April 8. and the delay is in consequence of our not being able as yet to get meeting of the Company, but will do so as soon as possible

Yours truly

Sam'l Insull

April 11– 2.

Messrs Collins Hoskin
251 Washington St
Jersey City N.J.

Gentlemen

In regard of Messrs Gannon & Gordon check to your order for $835.00 for payment of Lots at Menlo Park. N.J.

Yours truly

Thos A Edison

FROM
THOMAS A. EDISON,
No 65 FIFTH AVENUE
New York April 11 1882

TO
Colles & Corbin
6 Cornhill &
London Eng.

Dear Sir

I beg to confirm cable as follows

To you April 7 82. Original Attorney mailed Westphalia

From you April 8 82 Service complications arising out receipt sealed agreement European Telephone.

I presume you mean by sealed agreement &c

I signed the European Agreement immediately I returned from Florida & then was acquainted of meeting of the Telephone Co Directors. It will be read you at as little delay as possible

Yours truly
Thos A Edison

82.

11th April 2.

Mr Noel B. Armory
United States Illuminating
Co. Chamberlin Co
Ala

Dear Sir,

I think our factory
would be willing to give
you Lamps on $2200 Ka
contract for one year,
though it is possible I might
get one for three years. I
will write

Yours truly

T A Edison

11th April 2.

Francis R. Upton Esq
Edison Lamp Co
Harrison New Jersey

Dear Sir,

I think the best
arrangement we could make
is to appoint Mr Bradley as Superintendent
of Manufacturing while Dr Mackenzie
should retain his present
charge of the Orders Billing
and in addition have charge
of all papers & matters therein

I am very anxious
that everything should run
smoothly and believe that
Mr Bradley intimately with us
in the last quarter of the year
will be very much better
him and Bradley

Yours very truly

T A Edison

12th Apl 25

G. P. Tabor Esq
Co Drexel Morgan & Co
Broad & Wall
City

Dear Sir

I enclose you Mr Johnsons letter for perusal.

I shall not be down today as I have to go to Menlo Park this A.M.

Yours very truly
Saml Insull

April 12th 25

Louis Bradley Esq
Edison Lamp Co.
Harrison N.J.

Dear Sir

Please come in, to Belle Office 120 Broadway tomorrow (Friday) at 10 o'clock,

Yours Truly
S. Insull
per Dictt

John F. Randolph
Menlo Park N.J.

Dear Sir

Please ascertain if I have in my library - 32 Vols. Proceedings of Mechanical Engineers, and inform me by mail

Yours Truly
T.A. Edison
per Mott

F.R. Upton Esq
Harrison N.J.

Dear Sir

Mr. Edison requests me to write you to look out for an Englishman named Edmunds sent over here by the Siran people, and if so Jack to look sharp and allow him one admission without pass.

Yours Truly
C.L. Mott

APRIL 18TH,

[illegible] REFERRING TO [illegible] OR OF THE 14TH. [illegible]

[illegible] INTO THE MATTER OF THE USE OF [illegible] AT

[illegible] WITH YOU QUITE AS

[illegible] TO DO SO.

YOURS TRULY,

Paul Lucas

April 15th.

Chas. D. Dean, Esq.

Edison Machine Works.

104 Cedar St.

Dear Sir:-

It appears that the use of [illegible] in the shop may affect our insurance policies. I believe you told me it was for cleaning machinery. Mr Miller says that Bicarbonate of Soda or cyanide of potassium would, he thinks, do just as well. Will you please let me know if you can use either of these in the place of Benzine?

Yours truly,

Paul Lucas

19 Apr
E. M. Hart Jun
249 West 28th St
City

19 Apr
A. A. Isaacman
Equitable Life
Ledger Bldg Ninth & Chestnut Sts
Philadelphia

Cadillac Pan Pipes
Avenue Bridge No 5
see my secretary
Phone Bowers

Jackson cable 900
6 cents (900) 6 cents
Not while on you
20
Phone Bowers

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, [illegible] 1882.

TO

Per U.S. Rep.

EDWARD H. JOHNSON,

LONDON, ENGLAND.

My Dear Johnson,

By this same mail I send you two unmounted photographs one of the old Locomotive & Car and the other of our present Locomotive & Car.

The latter photograph was taken yesterday together with a number of other photographs of the road. But today there has been no sun & it has been raining all day & instead of having two complete sets of photographs one set mounted to be sent by express to you and the other set unmounted to be mailed to you I have only this solitary photograph to send you with the photo of the old road which was taken long ago.

Now there is another mail going to-morrow at 8.30 (Cal. Columbia via Plymouth) & I may have some more ready often to send you. On Saturday (Steamer (S.S. City of Rome) I shall send you two sets of the weather favors one by mail unmounted one by express mounted which I hope

you will get in time. Anyway you will see us and have a new head to get the photographs to you by the time required.

Now a few lines as to the road. Naples has fenced all but about 200 ft of it & when this is done it will be 2 3/4 miles long including three sidings & two turn tables. The grade is about 25 ft to the mile. At first that we can obtain any speed required. We have run 85 miles an hour with a load of 30 tons on the car and engine & tender frequently takes a load of about six tons of material for use in construction at the same rate. The Locomotive weighs about forty tons & will pull Eighteen cars & it will develope 25 horse power. You will notice on the photograph that the insulation rod of the wheel removed with brass tube you can replace some of the connections. The valves of two of the wheels frame one port & the two valves wheels and the other two frame the other port

We are now having built a freight
locomotive and ten freight cars
each one to carry [illegible] tons. As
soon as these are ready the economy
will be made.

Edison is sick in bed with
a terrible cold - too sick to attend
to any kind of business - we could
[illegible] get him to give me a
letter to you on this subject. We
[illegible] you over a week now
Mrs E refuses to let anyone talk
business to him so I have to wait
[illegible] much on my own
responsibility as when he was in
Florida. Doctor says he will
be all right again in a few days.

You said when will Ten Reel
Edison be ready. The seventh
Bulletin and you say this mail
will give you some information.
I think the station will be ready
inside of three months certainly
not before

When first started me and
it would be a good thing to
send you photographs taken in

Ah Lee nevo— Dedd... Eneia Elastic
Rail ad Interference). Pace may
be refut alec Claude Langlais.
Cannot avail made now
or will mizo mail
Yours as ever
Saul Levitt

99.

April 19th.

Frank Salze, Esq.,

231 East 84th. St.

City.

Sir:-

Referring to your favor of the 13th. inst. I beg to state that my time is so much occupied by my own inventions that it is quite impossible to give my attention to any others.

Yours truly,

Thos A Edison

April 19th.

G. D. W. Vroom, Esq.

Trenton, N. J.

Dear Sir:-

I duly received your favor of the 13th. notifying that you have been able to obtain the postponement of the Seyfart case for which accept my best thanks.

Yours truly,

Thos A Edison

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York, [illegible] 188 2

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

Dear Sir

I sent by yesterday's mail the Automatic Regulator with a set of drawings explaining how to put it up & also a letter from Mr Upton to Mr Bergmann. I hope you have received them before this reaches you.

Since you left I have had the Dynamo Armature rewound & it now runs the 1000 lamps & all the other machines.

We have had a very successful run with the Edison Dynamo driving the Siemens machine & 200 lamps. I have not yet received the drawings

[illegible] Mr Upton (Patent Office) Mr Stearns (Edison Electric Light Co) Mr Stearns (Edison Machine Works) Mr Bergmann (Edison Lamp Co) and Mr Sachs (Edison Lamp Co)

B 2[4]

6
[illegible] April 2. [illegible]

6
[illegible] April 2, Send ammo (5000) [illegible] camps and [illegible] immediately [illegible] [illegible]

6
[illegible] April 3. 82 Martin Green wife sick probably not live many months she wants him home immediately.

6
[illegible] April [illegible].82. [illegible] eight- [illegible] March twenty fourth under [illegible] (300) [illegible] April [illegible] [illegible] (900) [illegible] ambuscade (200) [illegible] [illegible] (1350) f.o.b. within fifty days. [illegible] adjoining (Socialist Electric [illegible]) order for [illegible] Ambulance (200) [illegible] with [illegible] [illegible] in [illegible] fifty [illegible] lamps.

6
[illegible] April 5.82 [illegible] two hundred fifty [illegible] [illegible] lamps [illegible] [illegible] [illegible] stations many [illegible] stations [illegible] [illegible] [illegible] any more [illegible] ordering [illegible] [illegible] [illegible] [illegible] and [illegible] of [illegible]
Socialist Electric

8 A.

6
Mon April 6. Ile fr a Carpe Do over
with Cunningham Car and his fw for
breakfast

6
Tues Apr 6. Ile supd at Mrs
Arabin (200) Capt Mrs Capt Arnans Miss
Arabin Chan Mr Archdeacon (200) with Mrs
Lowe Capt Mrs Archdeacon Archdeacon (200)
Mrs Castle (200). Mrs Clark Capt Mrs
Mrs Capt Mrs Capt Mrs Mrs Capt Capt.

8
Wed April 7 82 Ile fr Archdeacon with
Mrs Mackenzie Mrs Capt Mrs Capt Capt
Archdeacon Archdeacon Capt Capt Capt Archdeacon
Archdeacon Mrs Mrs Clark Capt Mrs Mrs
Mrs Mrs Archdeacon (200) Capt Archdeacon
Capt (200) Capt Capt Castle (1000) Mr Capt
Mrs Capt Light Mackenzie Capt Mrs Archdeacon
Capt Archdeacon (200) Capt Mrs Mrs Light
Capt Archdeacon Archdeacon Capt.

9
Thurs April 8. Capt Cunningham
Mrs Archdeacon Mrs Capt Capt Mrs Capt
Capt Mrs Capt Capt Mrs.

10
Fri April 9 82. Cunningham Capt Capt
Mrs Mrs Capt Mrs Mrs Mrs Capt Capt
Capt

R W.

Leave you April 9. Sara Cunningham
Fair Haven.

Leave you April 9. Mrs. Cunningham thinks
they can't do more until they get
full details how all ships dynamite etc.

Leave you April 10. No. and Mrs. Green
and Dr. Jennings & all else.

Leave you April 10. If Lara dynamite would
fail can we can build with other cheaper
than Lake and Iron stones

Leave you April 1882. Lake Lara Canada
Iron Lara at Stone Iron (Lake) also Lights
Ammunition, Lead Leave Iron Wrought Iron

Leave you April 1882. Mrs. Lake Lara Lake
Lake Lara Canada Lara Lake Lara Lake
Will accept Lara Lara and Ammunition dynamite
Cunningham Lake Lara Lara

Cunningham Lake family
reasons communicate to Lake Lake
today. Mr. Cates with him a
number of drawings of special
Lake Immediately obtained from
C.

Secret Cancel. I shall hope to send you more cables on. I will send you by Saturday mail full set of the drawings he has taken.

No drawings have ever been made for a 250 light Dynamo that is ever through shop sketches. A standard machine is now being tested. As soon as this is done I will have a set of drawings made for you.

As to the drawings of the Central Station Dynamo so many changes have been made that it is found necessary to make an entirely new set. I am pushing them in this mail. I will send them as soon as I get them.

This is the 125 Light machine which has not reached condition for us to send drawings. Then there is a 25 light machine. I will have drawings got out of this

Yours truly

Thos A Edison

Edison is very sick indeed to attend to any business whatever—Cancel

20th April 2

Dear Mr White,

Yours favours of 5th and 6th (the former enclosing letter from Mr Edison) came duly to hand.

I am sure I shall be very glad to open correspondence with you and if at any time I can in any way be of assistance to you I shall be only too glad to render it.

I will see that the Bulletins are sent you regularly as they contain information of what we are doing here which cannot but be of interest to you

We all think over here that your Company is a very strong one and we are looking forward to your doing a very large business

I have a note from your Mr Hayes asking me to send you 100 copies of our pamphlet on Edison System. They go forward by the steamer carrying this.

I am obliged to you for the information as to forwarding Domestic Cry. It struck me that people would be wrongly impressed by announcement

of the Domestic Cap. I could upon
it as to your p. Cai Lawrence to
pay himself on the 4th Quarter Expire
of Instalments.

Mr Lawson is confined to the
house for nearly a week, a very severe
cold to all Lawsons, which is nearly
gone & we and the Stud been very
busy employed for about a week to get all
the Mares & Foals in & remaining
Corn mentioned, Certainly Received P.O
for which I enclose you a Receipt, accept
from us, fine rain & Release now.

Very truly Yours

Lawrence Lawson

Received & Released in Settlement
of all demands

121

20th apl 2

failing which the fence shall be removed

Yours truly

Saml Insull

Private Secy

F. D. Hodges Esq
Elizabeth
new Jersey.

Dear Sir

I beg to acknowledge receipt of yours favour of 19th inst. & in reply would state that the lots you refer to were enclosed entirely without Mr Edisons knowledge as it was done at a time when he was in Florida. Your client does as to price all so far above what the property is worth that it seems almost useless to talk about prices. Are they inclined to rent if so how much per lot.

Mr Edison is so sick just now that it is quite impossible for him to attend to any business, but if yours clients are at all reasonable I will close with them

New York City
20th April 2

Arnold White Esq
Secretary
Edison Electric Light Co
London England

Dear Sir,

Referring to the various letters that your Company has sent to me & the orders that I am likely to receive from you in the future I shall be glad if you will make the necessary arrangements for me to obtain payment upon the goods being ready for shipment.

You should either give me a general authority to draw on you at sight or authorize some responsible Bankers to pay the amount of my invoices on presentation. At this writing I have bills outstanding to $6907 against you but am unable to get a settlement or arrangement of Draft because you refuse to pay on the ground that they have no authority so to do.

Yours truly,

Theo A Edison

20th Apl 2).

Societe Electrique Laison
88 Avenue de l'Opera
Paris France

Monsieur,

Mr Wallerstein informs me that he is only authorized to pay me for merchandise shipped on your account upon presentation of Invoice over Bill of Lading attached. It often occurs that my orders for goods on your account are filled at a time when there is no chance to ship by. In such cases I should be out of the cost of same until it were possible to ship them as I buy for cash, and consequently have to pay when the goods are ready while under present arrangement I could not get reimbursed until shipment was actually made.

Mr Wallerstein was only authorized to pay me $2.000 whereas my bills against you amount to $4782.87. Both he and myself have called you upon this subject. Will you please instruct him in such a manner as that I can obtain payment upon application & not have to wait until he has called for a remittance from you previous to each shipment.

New York, April 30th 1900

Chas Baeschlin Esq
Care
Société Industrielle et Commerciale Edison
Ivry-sur-Seine-France.

Dear Sir,

I am in receipt of your letters of the 2d, 15th and 28th of March received.

I send herewith three copies of the papers for Continental Case No. 39. Case No. 38 has not yet been forwarded, since it is upon further improvements in electric railways, and Mr Edison has not decided that it is of sufficient importance.

I also send herewith executed Powers of Attorney in cases Nos 33, 34, 35, 36, 37 and 39, for the

2

countries of France, Belgium, Germany, Austria, Italy and Spain, save for the last three countries bearing Consul certificates. As soon after I will send P. of A. with the cases, so as to avoid delay.

If you intend to put the Continental cases into the hands of two or more independent Solicitors, you should establish an intelligent control of all the cases, so that the patents may be applied for in such order that all may be valid, and so that their validity may be

4

deserved the proper attention ~~Hereafter~~ Communication should also be maintained with Mr Hansford at London.

Case No. 39 should be filed immediately, because the patents will be issued there in a short time. ~~Spain Belgium England~~ This is true in regard to having the Continental patents applied for in the name of Mr Edison instead of in the name of the Company, he desires them in his name principally for the reason that in Spain for instance the longest term can only be obtained in the name of the Inventor. If this is so with Spain alone, a full explanation of the matter by your French Solicitor might cause him to come to a different conclusion as to the other countries.

I have received a letter from Mr Brandon in regard to cases 33, 34 and 35 and have written him in respect to the same.

I wish to impress upon you the importance of not applying for any patent for a term less than fourteen (14) years. Have the kindness to keep me posted as to dates.

Yours truly,
Richd N. Dyer

New York, April 21st 92.

Thos. J. Handford Esq.
42 Southampton Bldgs
London W.C. Eng.

Dear Sir: Your letter of March 28th has been received. In regard to the drawing of Case 43 it should be as follows:

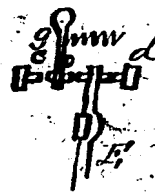

Fig in contact with d and separated from F; which is also separate from g.

In regard to your statement that two cases are missing between No 42 and No 43, I know of but one case that has not been forwarded. No 42 was prepared, and then Mr Edison decided not to forward it.

No 41 is in the hands of Brewer & Jewett. It is numbered 4576 and is dated Oct 19 87. Our record gives the list complete with the exception of No 42. I will forward the dates and numbers if you desire it.

I forward herewith papers in Case 49. The Continental Case No. 39 has been this day forwarded to Mr Batchelor with instructions to file immediately, since the U. S. Patents will

New York, April 21st 2.

Mr D.H. Brandon.
1 Rue Laffitte - Paris - France.

Dear Sir:

I have to acknowledge the receipt of your kind favor of the 10th. of March, and of the blank Powers of Attorney forwarded by you.

I have since their receipt forwarded thirty six to Mrs. Batchelor, and also a number of other cases in addition to those mentioned in your letter, which you have probably examined before this. My supply of these Blanks is nearly exhausted, and I would be pleased if you would send

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be issued at an early date. I have prepared this case carefully. It contains rather more matter than I thought advisable, but Mr Edison concluded to put it all in one case.

Yours truly,
Richd. N. Dyer.

2

more of them.

In regard to drawings in these cases, I understand that Mr Sewell is in the habit of having all of his drawing work done here. I will however forward blue prints of our U. S. drawings, from which you can have drawings made conformably to the requirements in European countries.

Yours truly

Rich'd H. Dyer.

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, April 21 1882

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

Dear Sir

I beg to confirm cables as follows:
From you April 11. Send twenty five "A"
dynamos pack [illegible] pieces more carefully. Reply.
Expecting large order. [illegible] [illegible] [illegible]
available about fifteenth. Send photo of
locomotive railway.

From you Apr. 12. Approximate price following
dynamos [illegible] armatures, 100 hundred, 25
two fifty, 6 thousand light. All a sample of
order given here, which is Armington engine
Send [illegible] photograph locomotive, other
things [illegible] Palace third May, formal
opening complete success congratulations
[illegible] [illegible] [illegible].

To you April 12.82 Have your cable
[illegible] [illegible] [illegible] bar armature at [illegible]
[illegible] light six hundred light [illegible]
two fifty light [illegible] fifty dollars [illegible]
[illegible] carrying [illegible] thousand lights two
thousand dollars [illegible] eight thousand with-
out engine [illegible] at the armature
machines about six dollars per light on big
[illegible] any size from [illegible] light machine

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Yours Feb 21-82 Do you think I can
[illegible] Mallon to run factories
[illegible] Dunbar Brophy to run
Metcalfe.

Gave careful to regulation
received attention. Claude says he
cannot give Benjamin instructions
as to preparing new Regulation Law
Gave until he has concluded some
[illegible] he is now conducting with
Central Station Dynamos.

As to Short & Macdonald. I
have not been able to see Short yet
I have telephoned & written him several
times but he does not come near
me. Macdonald says he will be
ready to go in about two weeks
or perhaps ten days.

It is unfortunate that your
should be unwell 32 candle lamps
just when the Lamp Factory is
being moved from Menlo Park to
Newark. Do all we what can be
done & cable you result.

I received the cable remittance
from Jaccard $2970 being proceeds
sale Unitas. Proceeds very acceptable

I called Leonard to sign the Indemnity Bond in the Accidental Telephone matter so I suppose I may look for the proceeds of this soon.

As to the man you wanted I thought it as well to call you asking whether you wanted him to start a Central Station or to start Factories till Batchelor is doing so I did not think you could quite clear on this point.

I am now anxiously awaiting the arrival of orders from you when I hope will be long

Yours truly

Theo A Edison

FROM

THOMAS A. EDISON,

NO. 65 FIFTH AVENUE,

New York, 24th April 1882

TO

Col. Geo. E. Gouraud

London. Engd

Dear Sir

I beg to advise you that Drexel Morgan & Co have today paid me £64,508 4/ proceeds valuation of £2990 at exchange 4.88½. They inform me that it was paid under instructions from you.

I presume this is the proceeds of the sale of United Telephone Shares

Yours truly

Thos A Edison

I am sorry I could not comply with your request as to the shares which go to you under my contract with Drexel Morgan & Co. The matter is entirely in their hands and altogether beyond my control. I think under the agreement with Mr Rendon the shares are issued to Drexel Morgan & Co as my attorneys

I am very glad that there is some prospect of a settlement of the whole matter being closed up. It has now been hanging so long that I had almost given up hopes of a settlement being arrived at

Yours truly

Thos A Edison

Directors of United Telephone Company, England, have
enabled me to ascertain from you whether in your opinion the pub-
lic were better served when there were rival Telephone Exchanges
before the Telephone Consolidation here occurred or whether the
service has been improved by consolidation, also whether you think
that at points where there has been no competition the establish-
ment of a rival exchange would or would not be of benefit to the
public. Reply by wire immediately and fully at my expense.

Thomas A. Edison

New York, April 22, 1882. 65 Fifth Ave.

22nd April

Geo. S. Ladd
San Francisco Cal

A. P. Dwight
General Manager
Great North Western Telegraph Co
Toronto Canada

T. B. A. David
Columbus Ohio

Theodore N. Vail
American Bell Telephone
Boston Mass

William A. Graves
Albany N. Y.

Henry Bentley
Philadelphia Pa

The Manager
Telephone Company
Albany

The Manager
Telephone Co
Washington D.C.

Manager
Telephone Co
Detroit Mich

The Manager
Telephone Co
Montreal Canada

The Manager
Telephone Co
Kansas City Mo

The Manager
Telephone Co
New Orleans La

The Manager
Telephone Co
Denver Col.

The Manager
Telephone Co
Baltimore Md.

The Manager
Telephone Co
San Francisco Cal

The Manager
Telephone Co
Providence R.I.

2nd April

The Manager
Telephone Co
Milwaukee Wis

The Manager
Telephone Co
Chicago Ill

The Manager
Telephone Co
Pittsburg Pa

The Manager
Telephone Co
Cincinnati O.

The Manager
Telephone Co
Cleveland O.

The Manager
Telephone Co
Indianapolis Ind

Yours truly
Secretary Home Clerk
Sec. City & S.

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April 24- 2

Richard C. Reclaim Esq
20 East 8½ St
N. Y. City.

Dear Sir

Referring to yours of April 19. I have no position that I can offer you.

Yours Truly

Thos A Edison

New York, April 24 -

L. W. Serrell, Esq
140- Nassau St. City.

Dear Sir.

Your letters of March 10th and 30th, and April 11th and 17th have been received and their contents noted upon our records.

Your letters of the 11th and 15th inst. in regard to the opposition of Siemens & Halske in German case No. 9, and the inclosures have also been received.

Inclose herewith a memorandum of points of argument in this matter. The case is a very important one - more especially the claim on the feeders - and every effort should be made to secure it's allowance.

Yours truly - Richard Dyer

German appln No 9

Memorandum of points for argument.

The principal objection of Messrs Lemmens & Waltke to this application seems to be that it is for the application of generally known scientific principles and nothing more.

This objection is a weak one on its face, since a specific construction or combination, involving the application of well known laws to a new use may itself obvious, or analogous to uses already made of the laws, is undoubtedly patentable. And generally it may be stated that every invention, no matter how ingenious and meritorious, must rest upon analogies to be only for the application of well known laws.

The more simple, practicable and valuable the invention is, the more clearly the truth of this proposition is seen.

In fact no improvement can be made, without laws being found in the text books of the science to which the improvement relates, setting forth the principle upon which the improvement is based. The specific applica-

German appln No 9

Memorandum of points for argument.

The principal objections of Messrs Lemmon & Hall to this application seems to be that it is for the application of generally known scientific principles and nothing more.

This objection is a weak one on its face, since a specific construction or combination, involving the application of well known laws to a new use may itself obvious, or analogous to uses already made of the laws, is undoubtedly patentable. And generally it may be stated that every invention, no matter how ingenious & meritorious, must rest upon analogies to be only for the application of well known laws. The more simple, practicable and valuable the invention is, the more clearly the truth of this proposition is seen. In fact no improvement can be made, without laws being found in the text books of the science to which the improvement relates, respecting both the principle upon which the improvement is based. The specific applica-

tion of the laws, the discovery of their usefulness for certain new purposes, and the construction of the means necessary for making the specific application, come within the province of the inventor.

The first claim, on the use of feeding conductors without lamps in the most important, and it covers a construction which is highly efficient and ingenious.

So far as Edison circuits have all been run straight off from the source of electrical energy.

But when lamp circuits were run in this way, for incandescent lamps arranged in multiple arc, it was found that the drop of pressure was very great in conductors of economical size, and that the lamps at the outer end of the circuit were of less candle power than those near the generators. To make the candle power of all the lamps equal or practically equal, the feeding conductors are used. They run from the generators to centers of consumption — each set offered by conductors that are run to the centers or

as nearly as possible to the centers of a number of lamp circuits.

There are no lamp circuits connected with the feeding conductors. The principal "drop" will occur upon the feeding conductors, say from eight to fifteen per centum, while from the ends of the feeders to the lamps the "drop" will be small, say, for instance, two per centum. This last "drop" is not sufficient to make any visible difference in the lamps, even when one compares lamps located farthest from the termination of the feeders with those directly at the ends of such feeders.

I cannot see how this specific arrangement of circuits, can be said to involve nothing but an obvious or unpatentable application of well-known laws.

The idea of having the feeding conductors run to centers of consumption is one which is included in the spirit and perhaps in the terms of the first claim.

However it seems to me that it would be well to include it in definite terms in the claims.

The 2d and 3d claims on the

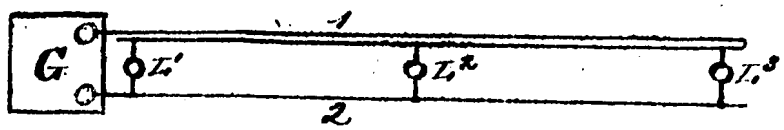
the pairing considerations, and the 4th claim on the use of the ground as a return are more open to the objections advanced by Siemens and Halske. These arguments seem to be directed principally against these claims, and it is apparent, that they hope by overthrowing these claims to secure the rejection of the more important matters of specific arrangement and construction embodied in the case.

The 2d, 3d and 4th claims can be erased if it is considered that their retention endangers the other claims, since Mr Edison now considers them of little or no importance. Figures 1, 1a and 1b might also be cancelled and the description relating thereto. I think that the erasure of these claims would knock the bottom out of the arguments advanced by Siemens and Halske.

In regard to the 5th claim, the idea is to arrange the circuits, so that those of all the lamps will be in circuits of the same resistance, or will be equi-distant electrically from the central station. Figures 9, 10, 11 and 12

5)

claim a specific way of carrying out the principle illustrated by this diagram.



G is the generator; 1, 2 a double and a single conductor; and L^1 L^2 and L^3 lamps, arranged at three points. Lamp L^1 is near G on 2 but is farthest away from G on 1. L^2 is farther from G on 2 but to the same extent nearer on 1. The distance lost or made up, by change of position, on one conductor, is made up or lost on the other. Hence the circuits of all the lamps will be the same in resistance, and all the lamps will be equi-distant electrically from the generator. This arrangement could not be applied without change to a general system of electrical distribution, and for that reason the specific arrangement shown in figures 9, 10, 11 and 12 had to be devised. The 5th claim includes also the use of feeding conductors without lamps and return conductors with lamps

6

The difference between this claim and the 1st claim is the peculiar arrangement by which all parts of the service circuit are made equi-distant electrically from the central station.

If not in case 9a, and if it could be done without endangering the 1st and 5th claims, I would advise the insertion in this case of a claim the same in substance as the 12th claim of case No 9 when first filed. This claim could be about as follows:

"The arrangement of conductors for a system of electrical distribution, consisting in laying service conductors around the separate blocks and connecting the service conductors of a series of blocks together by cross connections, and providing main or feeding conductors from the ~~centr~~ source of supply to such service conductors, substantially as set forth." However if the matter is considered as included in the present 5th claim, or if it is objected ~~to~~ and ~~prejudices~~ the case in any way, it can be left out.

New York. April 24th 1882. Richd. H. Dyer.

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April 26th 2.

L. W. Serrell, Esq.
140 Nassau St. City.

Dear Sir,

Mr Edison has instructed me to ask you for tracings of the Patent Office drawings in the U. S. applications of Mr Johnson on Telephones, Serial Nos 41,812, and 41,813, filed Oct. 8th 1881, for the purpose of having models constructed and to enable him to make suggestions as to amendments.

Yours truly
Rich'd N. Dyer.

April 26 2.

Dear Sir

I duly received your telegram in answer to mine as to telephone exchange system for which I beg to thank you.

Yours truly

To

W. H. Forbes Esq
Gen'l Nassau Telephone Co
Cincinnati
Ohio

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 26th Oct 1882

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

My Dear Batchelor,

Your account has been debited with the following amounts paid on your account:—

Edison Electric Light Co
50 % on 78 shares
new stock $3650.00

Edison Electric Light Co
10 % - 2nd call on 400 shares
new stock - C. Batchelor 40.

Edison Lamp Company
Assessment 1000

$4690.00

This credits your account with Edison Co as soon as we get a settlement of the Edison Light Co. which I hope to get tomorrow morning. Your account must be all right after this. We have to pay $750 further 10 % call on your new Paris stock, about $1600 to the Edison machine works & pay up your assessments & also for your European Bonds. You will have to pay for the Bonds (Consolidated) but we have been so pressed for funds until this week. I hope

FROM
AMONT
No. 85
New Yo

Pursuant Eaton Mat I will pay for the Bonds this week. Please let me know if you want the Bonds sent on to you.

The receipt for subscription to 77 shares Eaton Electric Light Stock received from Company this a.m. Had better remain here. When the whole of the subscription has been called & the stock exchanged for the subscription receipts the certificates of stock can be [redacted] and you

You sent for 17 shares Bailey Stock. The European Copy Books are closed but as soon as they reopen them I will get the stock transferred & sent you

Yours truly

Thos A Edison

Per Samuel Insull

169.

Redg. N. April 27th 82

L. A. Beers. Esq.
Equitable Bldg. City

Sir: Mr Edison desires me to call your attention to the Patent issued to Edward Weston April 18th 82 on an Dynamo Electric Machine (No. 256,778). The claim seems to be a limited one, but the specification was drawn with the evident intention of covering the construction involved in the interference of Weston v. Edison. I do not know that anything can be done, except perhaps to call the attention of the Commissioner to the matter. Respectfully

Rich'd. N. Dyer.

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 26th April 1882

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

My Dear Johnson

Your letter in which you speak so complimentary as to your recent leaving America when I met you get back has caused me deal of my idea of going to England. If you are so pressing anxious to get that then I think I would be foolish not to go over. In fact I intend and give this out to go over the Atlantic and if I can possibly get out of the Canada I will assure you I will come over.

My figures in the Hall Annunciator machine are the same as those of John Kruesi in his test at the Edison Institute except this exception that I believe that in his test was against the machine

I shall accept your recommendation to have all the Paris Exhibits better than belonging to the Canada Light Company to remain there and you can call me as your witness to go there and do the same as I can do the Edison time as witness

I am under the impression that I wrote you on one day after you arrived to hand 8 Do of the Quincy Ale. If I did not I certainly intended you should have it. Mr Hayward called you requested to call after I fully understand about Mayhew Patent arrangement. I am to pay Ten Cents Eight mill as I receive for entirely outside matters. Mayhew Hayward and on his behalf I will remit for the amount.

I am glad you speak so well of Hammond. His cruel treatment and work which his young man had to undergo at mens the absence of all silver gives rumors and his intelligence and ambition account for it. I am glad that you have found to get him into a good position and hope you will get him as much salary as possible until a change of ministry.

I send you a letter shipping from Saulsbys Bros which will answer you as regarding the cargoes of the Abbotsford Cassidy Hudson

Lighting Evendale

with such men at the head of affairs and inducted as you say you have inducted them and with men we can send from here to aid in the consolidation of dynamo I do not see why you cannot come home. My thoughts do not flow freely today I have been in bed for six weeks and this is the second day I have been able to get out to business & my thoughts are still very shaky so we must send the baffle till some other time.

I get great enjoyment from reading your letters so I think it would be just as well for you to stay where you are as when you get back there will be no letters for me to read!!!

Yours very truly

Thomas A Edison

New York Sept 2

Mrs Chas P. Kingsley
Friends Party
New Haven

Dear Lily

Mr Lewin has handed me your note and I am sorry to say that I cannot go to Yale on Saturday. My cousin is here and I am entertaining him. I am sorry to miss the game, but I will be there next year. Please remember me to Mrs Kingsley and the rest of the party. Yours truly,

[illegible]

Per Ld. City of Rotterdam

28th April 2

Arnold White Esq
Edison Electric Light Co
57 Holborn Viaduct
London E. C. England

My Dear Sir

Your favor of 5th inst came to hand while I was sick in bed hence the delay in replying to it

I trust that the connection you have again formed with one of my enterprises may prove alike advantageous to the Company and to yourself.

I am expecting very great things from your Company as the reputation and ability of the gentlemen directing its affairs would seem to guarantee that the business will be prosecuted with very good success

I am
My Dear Sir
Very truly Yours

Thomas A. Edison

FROM THOMAS A. EDISON, 65 FIFTH AVENUE, New York, 28th April 1882

TO CHAS. BATCHELOR, PARIS, FRANCE.

My Dear Batchelor,

I have your favor of 10th April.

Z. machines. The Société Electrique Edison have written me to send them five "A" armatures for Z machines you refer to. It seems to me useless & expensive to do this as you can rewind the present armatures now wound for "B" lights for less than it will cost to send the armatures you have back here & we send "A" armatures in their place. If you think this arrangement will prove satisfactory please try & arrange it so with the Société Electrique.

Exhibition Peking. Referring to the Peking exhibit at the Electrical Exhibition, this was sent over by the Electric Tube Co as an exhibit & you were quite right in sending it to London for Johnson to exhibit there.

[illegible] machines. I think the prices I have quoted for small machines is right. Johnson was wrong in the

piece to named to your papa.
I could not possibly attend at 9000
as you twice on when you get a
machine. As to the large machine
the clock is it is keeping the expense
alone costs $300 at present & one
make but very little on it. You will
see all this when you get the
drawings which I am having made
now) as fast as possible
Yours truly
Thos A Edison

1st May

Thomas Edison Camp Co
Manufacturers
Orange N.J.

Dear Sirs

Please ship at once
case Nos 900 to 999 inclusive
same will be found to have
been shipped to Genl Electric Co
that they were purchased
by express & Maynard
Perry & Hutchinson re-
specting at once to
Yours truly

Thos A Edison

1st May

Francis R. Upton Esq
Edison Lamp Co
Manufacturers
N.J.

Dear Sir

I telegraphed you
this morning that Mr
Edison would take the
building at Menlo Park
for $600

Yours truly

Saml Insull

189.

1st May 2

Mr Wm Henry Bulkeley.
Utica
N.Y.

Dear Sir,

Referring to your favour of 19th April which came during my absence from New York, I am so very busy on my own inventions that it is quite impossible for me to give the time to answer your many questions

Yours truly

Thos A Edison

1st May 2

Mr Wm Edward Lee
Patent Mfg. Co
261 Broadway
City

Dear Sir,

Referring to your favour of 19th April (which I have been unable to answer owing to sickness) I beg to state that I am so busy with my own inventions & take up any other matters

Yours truly

Thos A Edison

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York, [illegible] 1882

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

[illegible]

[illegible] Mr. [illegible] Sullivan called

[illegible] Nov 24 82. Instructed to [illegible]

[illegible] more than usual telephone [illegible]

[illegible] Will [illegible] [illegible]

[illegible] Nov 24. Sullivan [illegible]

[illegible] by Mrs Howard for [illegible]

[illegible] Nov 24. Franks [illegible]

[illegible] [illegible] [illegible]

[illegible] Nov May 1882 Last [illegible] finished to day [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

C.B.
2

mailed samples.

You should have received from Galveston your Account & United Telephone monies by this time. Please advise me exactly as to amounts &c if you have got them also if any stock you may receive from here.

I am sorry to say that I cannot find you any men here who I could recommend. I think you will get more greater satisfaction in the long run if you would advertise as to the 250 light machine (about which I got a letter from you this morning) I will write you thereon at next day. Our cut is rapidly finishing yet. We have lately nothing but a few machine to do and get quite empty.

As to my car, will see [illegible] [illegible] [illegible]

Yours truly

Chas A Bacon

P.S. Your Account Sales and letters and to your Father received

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, ~~April 25~~ May 1 1882

TO
EDWARD H. JOHNSON,
LONDON, ENGLAND.

Dear Sir

Beg to communicate as follows

"From you April 22. Want man familiar with details [illegible] dynamo construction [illegible]

"From you April 22 Have cabled [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

"[illegible] April 22 What is the amount [illegible] bill [illegible]

"From me Apr 26. [illegible] by mail [illegible] One hundred [illegible] light [illegible] with two hundred and fifty [illegible] thirty [illegible] lamps. Thirty two regulators, thirty [illegible] [illegible] [illegible] [illegible] [illegible] all dynamos [illegible] [illegible] [illegible] [illegible] [illegible] still considering large dynamo [illegible] [illegible] include dynamos already [illegible]

D. 27

As you know I cannot find Mr Fox Dynamo Building Sir a one you like Mr Fox will subject him Dynamo Sir a under your last date instructions fifteen thousand eight hundred dollars Mr Fox not fully understand thousand dollars

The only man I could send you is Cunningham whom Batchelor asked for some weeks back & who is by this time in London. I think if you send a thorough mechanic over here a few weeks at first it would pay him thoroughly & enable him to superintend Dynamo construction at Manchester.

I am glad that your orders for apparatus is coming along I am preparing to execute as soon as it arrives which should be in a very few days now. I think if the Company are going to require Central Station Dynamos they should send them orders right away. By the middle of next month Mr Dynamos for the Central

£150

here will be completed. I have just started work on six more machines four of which will go to Batchelor & the other two I am building on spec. I am very much afraid that directly the station start new the demand for Central Station machines will be very large & I shall be very busy. The English Company's prospectus during October not reading Edeks forward as fast this

Yours truly

Thos A Edison

Dear Sirs I called you were very busy. The two light machines & calculator as if we had been expecting your law directions right along of that size. I hope to have by Christmas one of special tools to cover expenses

Col. Geo. E. Gilliland
6 Bonchurch Villas
Ventnor I. W.
England

Dear Col,

I have just seen of 4th April with explanation as to my name appearing as Director of various companies.

I think my name should be taken off the Directorate of the Consolidated Telephone Construction Maintenance Co as I had nothing whatever to do with the Company.

I was under the impression that my name was used in the Directorate of the London Local Telephone Co, the National Telephone Co & the Provincial Telephone Co. If so please do me the favour of seeing that I am taken off as well as off the Directorate of the Consolidated Co, Board & oblige me much

Yours very truly

Geo. A. Gilliland

[MISDATED. CORRECT DATE IS MAY 1, 1882]

1st April 2

Col Geo E Gouraud
6 Lombard Court
London England

My Dear Col, (European Dispatch)
Yours of the 18th
ult had just come to hand this
P.M. I have already early this morning
cabled you that I had handed to
Peirce Thomson & Co the European
Telephone Agreement referred to as
you will see from cables confirmed
elsewhere.

At the same time I
requested you to send me a
copy of the Agreement dated 10th
September. This is the agreement
previously signed by myself and
the Edison ~~Europe~~ Telephone Co
of Europe & which was sent to Jetter
Mackwell & Co through Peirce
Thomson & Co. I am sorry there
has been so much delay about
this but it was only late on Saturday
afternoon that I managed to get the
Bankers signature.

Immediately the above

[illegible] a copy of agreement of
[illegible] between [illegible]
[illegible] the Board of the Lucan Republican
[illegible] of Lucan) must be acted
[illegible] I hope now & each [illegible]
[illegible] matters regarding the [illegible]
[illegible] Lucan [illegible]

[illegible] may [illegible] we
are changed for [illegible] being
[illegible] Lucan [illegible] [illegible] not to
be decided as although I have been
[illegible] with for several years to attend
to much [illegible] I could [illegible]
giving his attention [illegible] matters
[illegible] it was not until last [illegible]
[illegible] day [illegible] I [illegible] that
[illegible] to [illegible] Mr Farmer)

Yours truly,

[illegible]

4th May 2

Col. Geo. B. Seaman
London
England

My Dear Col,

Oriental Telephone

I duly received your favours of 15th & 20th April and also your Cable remittance on 26th of Rupees, receipt of which amount I confirmed on that day.

In the light of my cables & your confirmations thereto, I presume you remitted to me the amount due me, less 5% to Johnson, and 20% to Batchelor of what remained after paying Johnson his 5%.

I want the above dealt with in the same manner, i.e.; 1st give Johnson a certificate for 5% of the above coming to me; 2nd give Batchelor a certificate for 20% of what remains; 3rd send the remaining above sum to me. You have certainly done more than was required in collecting 20% on Mr. Reid's

[illegible]

1st May 2

Col. Geo. G. Garrard
London
England

My Dear Col, United Telephone

I have duly received your favour of 25th & 26th April expressing to United Telephone Coy cheques and beg to confirm my request, as conveyed to you through Johnson, that you pay 20% of the proceeds to Mr Batchelor. I have already acknowledged to you by receipt of the cash transfer of £2970 being proceeds of the sale less 2½% of same payable to Mr Batchelor

Yours truly

Dan Lyon

1st May 2

La Société Electrique Edison
32 Avenue de l'Opera
Paris
France

Messieurs

Again referring to your letter of 11th April I have made further enquiries into the matter of how Dynamos are marked and find that so far as the Dynamos are concerned I find that each box bears the number of the dynamo to which it belongs & that the Box containing the Armature has the additional mark of "A" or "B" according to whether the machine is for 2 lamps (16 candles) or 8 lamps (8 candles). As the "2" dynamo is packed in four separate boxes and as each of these boxes may bear the same number there should be no difficulty so far as the machines are concerned. As to the remaining items that go to make up a plant I will see that the packages are marked in such a manner as to enable you to recognise them easily

Yours truly
Thos A Edison L.

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York 2nd May 1882

TO

EDWARD H. JOHNSON,

LONDON, ENGLAND.

Dear Sir

Referring to your favor of 26th February (which has remained unanswered until owing to my absence in Canada and recently on account of my illness) I think that any thing in the application patents which could not in this country and be of value in the Brandon decision in connection with figures 5,677 of patent #2989 of 1880 and not found in the third claim of that patent

A Company of mine on Electric Rail Roads is about to be formed and I would advise Dr. Hopkinson to take out a patent in the above referred to Patent in this country which I may be enabled by arrangement with the Rail Road Co. owners or lessees, to carry out if they desire to make use of the invention

Professor Hopkinson of Manchester might call upon the Secretary of the Edison Electric Light Co. 57 Holborn Viaduct

Redhill, April 25th 1853

Thos. H. Dixon Esq.

Dear Sir,

Pursuant to request the three English patents to Dr. Jacob Perkins, dated 11th May 1819, 25th May 1820, and 25th May 1822, in connection with the Inventors Bill dated 31st July 1852, and filed with your petition, No. 2 of 31, dated 3rd August 1852.

I have carried the specifications of the aforesaid patents in the Patent Office Enrolment Department with Nos. 232, 233 (Dated Sept. 1820). The time that will be applicable was filed July 30th 1850, seven years after the date of the first patent, but the intervening period should be allowed to you on application to the Commissioners, also Dr. Perkins's patent dated 11th May 1819 for the other English patent. Dr. Perkins's patents were the first specifications of the kind enrolled (except Bramah's) and probably are the only ones now in existence.

then existing Act or Statute (by this or any other Patentee under a) a Date of Application earlier than the date of Dr Hopkinson's Patent October or not this was done Page no means of knowing

The Chances of success in ~~Court~~ an interference with Field would be largely in favour of Field

No. 1650, dated 14th November 1879.

The Specific arrangement shown in figures 1 and 2 of this Patent might be claimed by a separate application if there is no Patent already issued claiming the same thing. If a single application has been filed including all the Inventions claimed by Dr Hopkinson in two Patents 1649 and 1650 of 1879, it is not likely that an examination was made at the Patent Office as to the specific arrangement first referred to.

It seems to me a matter of small importance, since it is only one of a number of ways of doing the same thing, and especially since you consider a current reverser as a more practicable thing for the purpose.

(3)

Lo regard to the arrangement shown in figure 3 to 6 inclusive, viz: the mounting of the brushes upon a pivoted yoke so that they can be swung directly round upon the commutator cylinder.

The application of this device to a machine such as that of Gramme or Siemens, when it has been before applied to a machine of the character shown in Hiram's United States patent No 166,527 dated Aug. 10th 1875, does not seem to me to be broadly patentable. I also understand that it is quite common in electro-motors to mount each brush on a spindle adjustable in a slot so that it can be adjusted to any point within the limits of a half circle.

No. 2959 dated 7th July 1881.

I have looked into this patent carefully and, ~~I think~~ think that patents can be obtained upon the devices described in the United States. Two applications would have to be filed to cover all the devices — one on the construction shown in figures 1, 2, 3 and 4, and one on that shown in figures

5, Caid 7. Mr Reed to know
in what Part there is an incorrect
statement in Patents taken, by
foreigners residing abroad, in
the United States. They rest
on the date of the foreign patent
when granted. If an agreement
is entered into with Dr Hopkinson,
it should be made conditional
upon the grant of the patents.

Respectfully
Richd. H. Dyer.

N.B. In regard to the last patent, it seems
to me that the device shown in figures 5 and
6 is impracticable, although the principle
involved is good. When the metal
comes between Q. Starches Nand P it will
~~close the circuit~~ expand, and Mercury out and the
motors entirely for an instant.
This would prove disastrous.

Compagnie Continentale Edison
98 Avenue de l'Opera
Paris

Monsieur,

I beg to enclose you herewith letter of Signor Duca Felice Tocchi of Rome, dated 18th April to which he would like to get your attention. I have informed Signor Tocchi that I have referred his letter to you

Yours truly

Paris, 20th April.

Messrs Cunningham & Co
Provisional
P.P.

Dear Sirs,

I duly received your telegram yesterday and Signor Duca Felice Tocchi's letter, which I hope you will receive shortly. I have also written to the Ente per le Case Popolari enquiring (amongst) other things as to the amount of land they require for the erection of houses, and I hope to obtain this information within a few days. I am sorry that I cannot give you more definite particulars at present.

Yours truly

Paris Edison

May 16th 2

T. A. Street Esq
Auditor General
Victoria B.C.

Dear Sir

I duly received your letter of the 15th inst. but have not received the plan and description of the water record that you say you sent me. I did not calculate upon the insertion of the words "Deep Creek" when I wrote you, but they slipped from my mind. However I could consider that statement sufficiently by a suggestion of reasons grounds of information, more as a criticism of the case as the claim you made or proposed to make, than a relinquishment of all pretensions of claim, and I do not see that a statement it would prejudice your remaining pre-emption claim (Lauren Grimmitt) on the water in English Harbour Nootka of 1878. Kindly forward me with a copy of my letter as mentioned referred to by you.

Yours truly
Andrew Rae
per [illegible]

2nd May

Brownington & Sims

Providence R.I.

Can you put large cylinder on standard central engine so as to indicate with economy hundred seventy five instead hundred twenty five. Have just received foreign order for twelve and will give up Porter if you can do it and aid us to get proper model to fit our present bedplate. How would it do for one of you to come on. Must could quickly or else must use Porter which we do not desire to although he agrees to abate his extender on present engines. Have

can have Queen & Pacific engine if you can promise one for London engine & ready Queen & Pacific

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York,

TO

EDWARD H. JOHNSON,
LONDON, ENGLAND.

Dear Sir,

I yesterday called on Falcon [illegible] found new lamp up when called as [illegible] exhaust plug [illegible] than useless as vapor had caused both poles. Otherwise all right. Your plug made by [illegible] connecting [illegible] to lamp by [illegible] lead through hole [illegible] in center plug. Change all and without fail. Mailed [illegible] Examples Acorn fearing non-arrival from your [illegible]

I [illegible] you by same mail [illegible] replacer. Have two plugs and marked "A.J." is a sample of what you have & pierced and the plug marked "A.B." is a sample of how to do one end of the [illegible] It is absolutely essential that this change should be made, as if you have the two plugs just as they are now, will be of no use. Hoping [illegible] change. Also receipt [illegible] Yours truly,

Thos A Edison.

FROM

THOMAS A. EDISON,

No 65 FIFTH AVENUE.

New York, 2nd May 82

TO

CHAS. BATCHELOR,

PARIS. FRANCE.

Dear Sir,

Referring to my cable of yesterday as to safety catch plugs which were destroyed on my request of yesterday I beg to advise you that I have sent by this mail under separate cover two sample plugs — one marked "A. G." is as you have them at present; the one marked C.K. is how you must allow every one you now have, as if you do not your safety plug will be worse than useless & cause fire.

I enclose you a list of the numbers of new style of plugs sent you & where they were sent you to for your guidance

Yours truly

Thos A Edison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE.
New York, May 3 1882.

TO

Miss Helen Miller
94 Fulton St
City

Gentlemen

Please send same as possible to
Miss S.A. Lauer Rhinebeck N.Y.
½ lb Ext Lt Brunette Wax
½ " " " Orange Flower
½ " " " Patchouli
½ " " " Jasmine
½ " " " Ylang Ylang
½ " " " Heliotrope
½ " " " Carnation Pink
1 doz Ext Florida Water
1 " Ext Jockey Club Soap
1 " Cake Colgates Jasmine Vegetable Toilet Soap
1 " Cake Colgates Cashmere Bouquet Toilet Soap.
½ " Ext Shaving Cream
2 lb Pulverized
2 " Glass Paper
2 " Emery "
1 " Florida Water Atkinsons
1 " Chicago " "
1 doz Ext Jockey Powder
2 lb Powdered Orris
1 " Powdered Orris Root
1 " Orris Root
8 " Sand Bags
2 " Canary Bird Seed

5 lb Whole Pimento
5 " ground "
4 " " Mustard
2 " powder Jamaica Ginger
10 " Tapioca
1 Bott gum Mucilage
1 Bx Tr Citrate of Magnesia
1 lb Arnica Liniment
1 " Chloform
1 " Essence Peppermint
1 " " Jamaica Ginger
1 " " Vanilla
1 " " Lemon
1 " " Banana
1 " " Orange
2 gall Bourbon Whisky
2 " pure Brandy
2 " Port Wine
2 " Madeira Wine
2 " Table Beer
1 " Sweet Malaga Wine
2 Gall Pint Bott Effervescing Water
2 " qt " Seltzer Water
1 lb Tincture of Benzoin
2 " Acetic Acid
3 gall Alcohol 95 per cent
1 lb Wht Pr. powdered Asafoetida

2 lb Mixed Spices of America
1 " ground Cinnamon
1 Box 5 lbs Powd. Bait Brick
2 Gals Bay Rum
1 lb Powd. Cloves
2 " Cream Tartar
5 " Sulfur Earth
3 oz Pkgs Albions Celebrated
1 lb gum Camphor
1 gal Olive Oil

Please send bill to T. A. Edison Menlo Park N. J.

Yours Truly

Thos A Edison

FROM

THOMAS A. EDISON,

No 65 FIFTH AVENUE

New York, 1st May 1882

TO

CHAS. BATCHELOR,

PARIS, FRANCE

My Dear Batchelor

Taking out Patents. I do not think I have ever written you personally on the question of ~~of~~ taking out Patents in the continent of Europe

My reasons for taking the European business out of Lowells hands were 1st that I had engaged R. A. Dyer as Patent attorney exclusively in my interest and therefore no longer required the services of Lowell as all cases are prepared in my own office & 2nd that so many complaints had been made against Lowells foreign Agents as to many glaring imperfections in Patents taken out that I thought it absolutely necessary that my foreign Patent business should go through other channels.

Both Peirce and Bailey have always claimed that Brandon is a very poor Patent attorney, that he is quite unacquainted with French Patent practice. That my Patent interests in France were

F.P.

very much prejudiced by having my applications pass through her hands. Of course it is impossible for me to know whether this is so or not as I do not know whether he remodels the cases sent here before filing them, and whether he files an exact translation of what he receives from here. If the latter course is pursued he is in no way responsible. However this may be I think the whole business should be put into the hands of a first class American Attorney who should look after all new cases for the Continent of Europe & remodel the specifications sent from here so that they will comply with the local patent laws. He should also take in hand the paying of annuities & working of patents & on this connection your Attorney should be placed in communication with Brewer & Jewett with the object of taking over this part of the business from them

I have heard Armengaud spoken of as a man extremely well suited for new business but of course I will leave the choice of a man

to yourself as you are on the ground and can better able to judge than myself.

So far as payment for Patents is concerned if ever I have people in Texas pay for the Western Light Patents for Counties controlled by them. I particularly wish to pay myself for all Rail Road patents that I [illegible] may order to be taken out.

As to the payment made by Brandon on a Spanish Colonial Patent I presume he must have received some instructions from Council. If so he should apply to Council for payment and not to me. I have never given Brandon any instructions except through you

Yours very truly

Thos A [illegible]

5th inst.

Calvin Goddard Esqre
Secretary
Edison Electric Light Coy
Dear Sir

Referring to your favor of 2d inst. I have talked to Mr Edison as to the Boilers and Stack at Gowanus Sheet and he says that all he requires to run his shop safely, however power Boilers and that had it not been necessary for testing your Central Station Dynamos he would not have put in the present Boilers.

As to the stack he could have got all the steam he required for shop purposes with the old chimney but in order to keep up the high pressure necessary for testing your Dynamos he was obliged to put in the present stack.

As your Engineer would doubtless advise you it is very uneconomical to use a Riveted and Lapt horse power Boiler to develope forty horse power which is all it is possible to get out of the shop engine at Gowanus.

Considering all the circumstances

Lit

Provided Mr Edison is willing to bear half of the amount of the Bills returned and provided the Edison Electric Light company will allow the other half the Light Co to have the use of the Boilers whenever necessary to test their machinery they to be charged with cost of labour and material used in making such tests.

I think this proposal of Mr Edisons a very fair one and made especially when you consider how very expensive it is for him to take his steam from the present Boilers and that he is precluded from putting in one exactly suitable to his purpose owing to his being so very much cramped for room.

Hoping for a speedy settlement of the accident on this basis

I remain

Very truly yours

Saml Insull

May 6

No. 1 Hereford Sq.
Mr Southampton Bldgs
London W.C. Eng.

Dear Sirs,

[illegible] complete specification
[illegible] Patent on
[illegible] Reflex [illegible]
[illegible] Patent Office [illegible]
[illegible] Paris,
[illegible] Rue Taitbout. Paris.
[illegible] Convention [illegible]
[illegible] 16th [illegible]
[illegible] specification [illegible]
[illegible] specification [illegible]
[illegible] Patent Office [illegible]
[illegible] of the claims [illegible]
[illegible]

2

Menlo Park, [illegible]
[illegible] to prepare
the provisional specification.

Mr. Edison is entitled to
in this matter and is
saying the experiments
so that you can treat
the case as one application

Thanking you kindly
[illegible] me to remain
Yours truly
Edison

Edison

May 6 1878

T. A. Brandon, Esq.
1 Rue Lafayette Paris.

Dear Sir

Inclosed please find papers and drawings for the invention of Messrs Stern and Byllesby upon Lighting Cars by Electricity. Mr Edison is interested in this matter and desires you to obtain a French patent upon the invention. Any fees you may pay for the purpose, can be paid Mr Bakelaar for the U. S. patent and he will send May 16 8m. Also please see that will be necessary for you in case of Caveat. Please address me here after at Menlo Park, N. J. Yours truly

May 6 1878

Chas Batchelor Esq:

Dear Sir:

I have this day directly to Mr Brandon papers in a case of Stern and Byllesby upon Lighting Cars by Electricity. Also his minutes of Edison's instructions and because great haste is required in order to obtain a valid French patent. Mr Brandon has instructions to take out the French patent only. Of course Edison desires in his matter, Your instructions to govern you to forward them immediately to Mr Edison's address.

Yours truly

May 8 2

Major

How unfortunate it is to mail all the back numbers of the Bulletin to the applicants for license that have been issued and mail in Montreal dept until a letter stating that the final experiment of a central station is fast approaching and that upon the completion successful of the Experiment the Company will be ready to enter into negotiations.

Archibald Knight entered up among those present and start the negotiations so that we shall have friends in Company when we have completed the work and [illegible] gaining [illegible]

[TRANSCRIPTION FOLLOWS]

[TRANSCRIPTION]

May 8 [188]2

Major [Sherburne B. Eaton]

How would it do to mail all the back numbers of the bulletins to the applicants for license that have been received and on file in statistical dept with a letter stating that the final experiment of a central station is fast approaching and that upon the completion & success of the experiment the Company will be ready to enter into negotiations.

We should keep the interest up among these people, and start the negotiations so that we shall have friends in every city looking out for us & themselves in awakening interest getting rights way etc.

Yours
T A Edison

9th May 92

Mr. M. D. Andrew
715 717 Market St.
Philadelphia

Dear Sir,

Referring to your favour of 5th I beg to state that I have not done anything further with the instrument you refer to since I wrote you last my time having been so much occupied with other things

Yours truly

Thos A Edison

249.

I want to get a Camera with
such as these boards & plates
as possible My
Impression is that the regular
Z Camera
Say
May 8

Clarke

Please keep me posted
by brief notes of the
progress of things. I
am going to try great
many things here that it
difficult to do at Gorrick
without your aid. Want you
to be on hand and trial the
small Car armature machine
some of which have
both Edge commutators on hand
so we can calculate the
light for armature

250.

9th May 2

Pneumatic Machine Co
Bridgeton
New Jersey

Gents

Referring to your favor of 5th inst I beg to state that I sold my Telephone Interests to the American Speaking Telephone Co who have an arrangement with the American Bell Telephone Coy of Boston Mass by which the latter has control of my Telephonic Inventions

Yours truly

Thos A Edison

9th May

Sport-Ausstellung
W. D. Linden, Director
Berlin W
Germany

Sir,

Referring to yours letter of 5th April with enclosure I regret very much to say that it will be quite impossible for me to exhibit at the International Exposition of Sport in Berlin

Yours truly

Thos A Edison

252.

9th May 2

John Nichols Esq
Lucnee"
Exchange Bldg
New York City

Dear Sir,

Referring to your several letters I beg to state that Mr Edison will not have anything further to do with the publication of Lucnee.

He also refuses to pay the account you have rendered on the ground that you undertook that his liabilities in respect to the Paper should not exceed $50

Yours truly
Saml Insull

9th May

P. D. Hodges Esq
Attorney at Law
Elizabeth N.J.

Dear Sir,

I would have answered your favour of 25th Apl before this but I have been quite en

If you will make an appointment any day for Thursday afternoon I will call & see you

Yours truly
Saml Insull
Private S.

255.

9th May 2

Friend Galbraith

Yours personal letter of 6th April came while I was sick. I was very sorry to hear of Goldstein being killed. He was a good natured old fellow I often wish that I could get the time to visit Rawlins again and the first opportunity I get I shall go out with Bankin and have a grand hunt

Very truly yours

9th May

R. M. Galbraith Esq
Rawlins
Wyo

Dear Sir,

The samples of coppers are came duly to hand and will be tested the first opportunity I have.

Do they come from the mine right around the back of Rawlins [illegible] the Seminoe Range

Yours truly

256.

9th May 2

My Dear Barkley,

Your favour of 7th has followed me here where I have again permanently located myself.

I have sent the letter to Eaton & asked him to do all he can in the matter of bringing influence to bear on the Committee of Congress & I will do the same.

I have also recommended that Professor Mendenhall be retained & have asked Eaton to write you on the subject.

I have sent Prof. Mendenhall some copper carbon Buttons. These are all I have at present.

I had a letter this morning from the Naughton Platinum Replacement Department. They are desirous of obtaining

an instrument by which they can obtain, and record the hourly variations in the temperature of Plants and coils.

I referred them to you on the subject.

Yours truly

Menlo Park, May 9th

L. W. Serrell, Esq.
140 Nassau St. New York.

Dear Sir:

Your letter of 3d inst., addressed to Mr Edison, in relation to application for patent on Phonographs, filed Dec. 15th 1879, has been received. Mr Edison has instructions me to write you that he wishes this case kept in the Patent Office and alive as long as possible.

Yours truly
Richd. N. Dyer.

Menlo Park, May 9th

Major J. F. Wilder
6 Park Place N.Y.

Dear Major:

Would you kindly furnish Mr Edison with a copy of the claims in cases 388-389-390 and 391. Also of the claims in cases filed since No 408. His book contains the claims of #408 but not of any subsequent case.

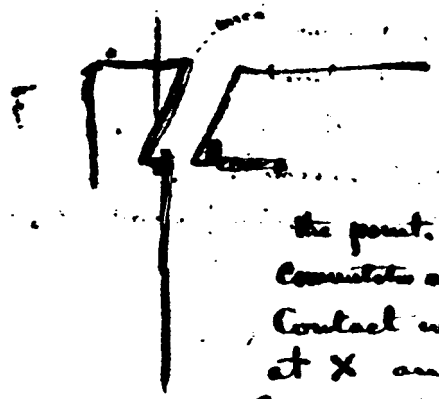
Yours truly
Richd. N. Dyer

I send the Commutator in

please fix a return you
will see when the brass

Dear

I wrote you yesterday that
one of our machines caused us the
Commutator & that I would investigate
and write. I have found out the
trouble and wonder why it is that
every one of our machine Dont Cause
heat &c as



the point B. of the
Commutator strip comes in
Contact with the Edge
at X and of course
Cuts the paper
under the bars falls short $\frac{1}{16}$ inch of
Coming to the End. I think this

over

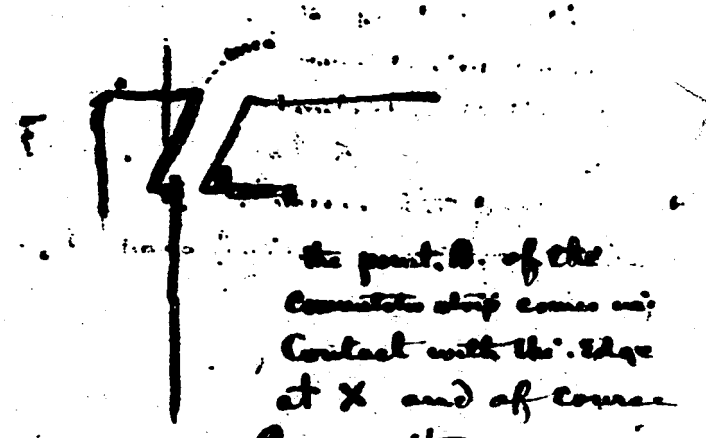
265.

Mar 10 '82

I send the Commutator in
please fix & return you
will see where the cross occured

Dear Sir

I wrote you yesterday that
one of our machines caused on the
Commutator & that I would investigate
and write. I have found out the
trouble and hereby notify you that
any one of our machines Don't Cross
hereafter



the point B. of the
Commutator strip comes in
Contact with the Edge
at X and of course
Crosses the paper
under the bars falls short 1/8 inch of
Coming to the End. I think this

Over

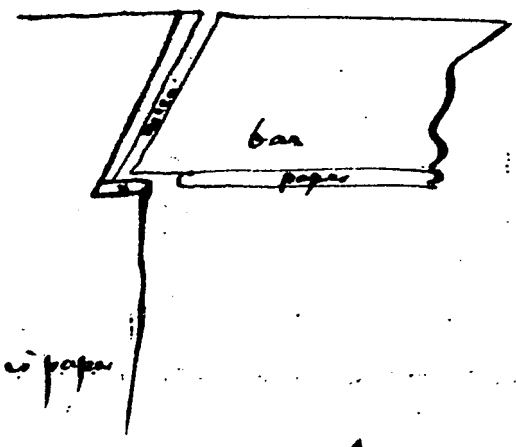
Menlo Park
May 10th 1882

H Bowman
108 Nassau Street
New York City

Send get for me as
soon as possible ten
pounds of ten Per Thousandths
German Silver Wire

Yours Truly
Thos A Edison

K.D.C

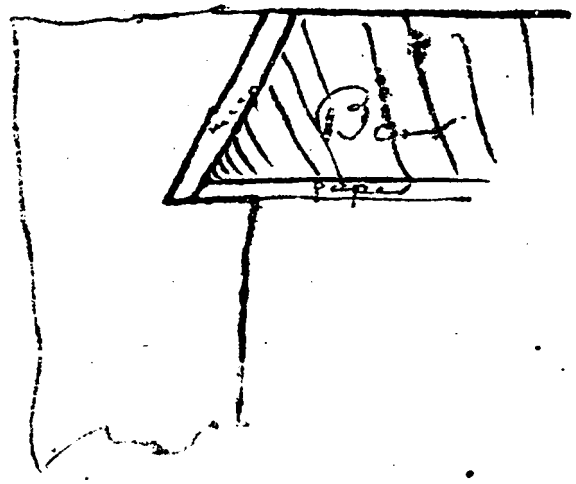


Please look out for this
or every one of our machines
will get crossed — Evidently
some one has got to Cutting
those papers under the bars
short

PS Logan tells me
that the papers are not short
on on the track side

Edna

should be changed either by
having the paper underneath
the Cork bars extend to the end
of the bars so as to rest on the
flange there



Or the paper might be
short as you have it
and a band of mica or
paper put around
the flange there

11th May 2

Dear Mr Young,

Your favor of 6th inst came to hand at a time when my establishment was being moved from New York back to Menlo Park which please accept as an apology for the delay in replying to you.

I have ordered to be sent you 50 B lamps (some eight and others sixteen candle power). The machine to give the proper electro motive force for one of said "B" lamps should run at 1000 but how all lamps will be sent you, which will doubtless enable you to get the proper candle power at 1200 or 1800 revolutions or even less. You should get such speed as will give the most to suit the lamps. Considerable difference in volts will be made if the brushes are too far advanced in direction of rotation. The tops of the brushes should be set just on the neutral point (ee) at right angles to opening in field.

I have ordered 25 sockets with cocks and a quantity of lead safety wire to be sent you. You can test the fusing point and peek out

night eye to carry your lamps.
I should be capable of carrying
double the number of lamps I need by
you.

If you have any trouble we
can send a man down as we have
plenty of them.

The lamps ordered will be
fully marked as to oils and
candle power.

Yours truly

May 11th 1882

J. Bergmann
108 Wooster Street
New York City

Will see you at nine o'clock
to morrow morning at
City Fire Dept Avenue
& Bowne

FROM

THOMAS A. EDISON,

~~OF FIFTH AVENUE~~

Menlo Park, ~~New York,~~ May 16 1882

TO Mr Rapp

EDISON MACHINE WORKS,

104 GOERCK STREET,

NEW YORK

Referring to your memo of 10th we cannot let you have any money this week. Sutch & I will be at the works tomorrow about 11 o'clock when I want to see you on finances. I will bring check in with me which you can sent out for signature.

Mr Edison does not think you should order the further 7000 lbs of mica. His impression is that you can get it just as cheap later on & thus obviate the necessity for carrying so much stock.

Please let us have as early as possible a complete statement of all Dynamos shipped from the works to foreign countries. We want the following information

Date of shipment
Where shipped to
For whom
Price
What denomination of machine

We also want copies of all

R2

FROM

THOMAS A. EDISON,

[redacted] AVENUE,

New York, ... 188

TO

EDISON MACHINE WORKS,

104 GOERCK STREET,

NEW YORK

Invoices of goods shipped to Europe up to the time you commenced billing them to the Edison

Very truly yours

Thos A Edison

11 May 2

Edison Europe Co
Account Rec'd Edison
Lamp Co
Keage sent to
Superior C.A. Journ
Pierce Co
Rec'd Edison
40 B lamps (regist cancelled
10 " (Returned " "
1 Cancel sold & acct of
Same sold
many sold & cancelled
Rec'd on hand Europe.
Charge same to
Edison Electric Light Co
whom I have requested
to send Journal orders to
you)

Yours truly

Thos A Edison

11th May 2.

Albert Pulitzer Esq
Victoria Hotel
New York City

My Dear Sir

Referring to your favor of 10th inst Mr Edison requests me to say that he would be glad to show you the Rail Road next Sunday. The best train for you to take is the 9.30 A.M. from Chatham St or Desbrosses St

Would you mind sending the spare copies of the Post Despatch to

C.B. Eaton Esq Pres
Edison Electric Light Co
65 Fifth Avenue
N.Y.

Yours truly
Samuel Insull
Private Secy

Att'n W.S. Andrews
Edison Machine Works
104 Goerck St
N.Y. City

Dear Sir

250 Light machine

I particularly want you report, as soon as you get an opportunity to make the test as to the heating of the armatures after several hours running with 300 lamps at 105 volts

Yours truly
Thos A Edison

275.

FROM

THOMAS A. EDISON,

~~No. 65 FIFTH AVENUE~~

Menlo Park, N. J. ~~New York~~, 11th May 1880

TO Chas R Dean Esq

EDISON MACHINE WORKS,

104 GOERCK STREET,

NEW YORK.

Dear Sir,

Your two letters of 10th inst are to hand.

The cores have nothing to do with the Commutator on the 250 light machine. As long as you have sufficient electro motive force to work the lamps and the bobbin does not overheat with 250 lamps on after running several hours then all is right so far as cores are concerned.

All you have to do is to experiment on the best kind and form of brushes to take the current off the Commutator. I suggest that the experiment be tried with the present brushes with mercury and afterwards put on two wide brushes like those on the large machine first without mercury and then with mercury.

These experiments should be hastened.

Yours truly,

Thos. A. Edison

11th May 2

P. B. A. Davids Esq
49 East State Street
Columbus O.

Dear Sir,

Yours favor of 5th has followed me here where I am now permanently located.

We have one Locomotive here that can pull four cars containing thirty people each at the rate of 20 miles per hour. It takes about 15 horse power. We are now building a single car which will have the motor underneath. It will carry 80 passengers twelve miles per hour & consume about four horse power. This is the best thing for the purpose you name as it is better to have plenty of trains, each to carry a few, people than to have few trains each carrying a great number of people.

We have three miles of road built now & the whole thing works splendidly.

Yours truly

Thos A Edison

I think you will perhaps have
to use Mercury & brush
rigging Exactly similar to
the C Dynamo on the 250
light. Do you not think it
safe to go ahead on them
as the spark big is a matter
of brushes because of the
Commutator cannot
be [illegible]
[illegible] bobbin [illegible]
etc Please give attention
this Dynamo [illegible]
important [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

May 11 2

Clarke,
Please send me result of George
test of the several meters in series,

In testing the Cheese knife, look
out that when you have thrown
several Carbons out that the
get the EMF [illegible] that the
Carbons dont gradually change
their resistance necessitating
another readjustment if this
is so it will keep the regulator
man very busy.

[illegible] Campbell or
[illegible] through
with the [illegible]
[illegible]
[illegible]
[illegible]
[illegible] as you say

(12)

Suggested to local machines, so that Andrews can pay more attention to the new & finer machines, hunting for the [illegible] Book you ought to see very soon about Tatem.

Delighted the girls were back safely. Delicate that upset more seriously that my Cousin Agnes was ill.

I should not order the Cheesknife rego until I was thoroughly satisfied by actual test, I ~~do~~

I should order the field reg because I see no chance for mistake there but please carefully consider it with a view of Economy;

[illegible]

T. Edison

11th May 2

Bayou Salon,

Yours letter ~~letter of 9th~~ with ~~enclosed~~ from letter of John Mowat & Co Rio de Janeiro has been received & I will take steps to prevent machines going into Brazil.

Returned herewith ~~is~~ telegram received from M. P. Bridge Am glad to hear such good news

I am glad to receive your daily chatty memoranda & ~~give~~ me the information I desire. Do not hesitate to call on me whenever you require information or require my opinion.

I have instructed Kinnell to experiment on a compound which will overcome the difficulties referred to in Kendall & Co letter of 1st April 1882

I also return you herewith the Report. You need not send these out here I can see them when I come in. Your memoranda above referred to supplies me

Dec 2/

with what I want in the way of departmental work of the various Companies

I return you Haywards letters

I will see what I have done in the way of accumulators for you Knaw. We should have nothing to do with the Dance Ballroom people. It will only turn out a stock jobbing affair & we will get ourselves "minced" if we go into it. Have I sent you a letter to Bankes making a offer. He will answer it you if you ask him & you might bring it before the Board but I should have nothing to do with it if I were there.

I have nothing to say as to Gramme Co organization.

Please call Mr Endruweit attention to the work on Dynamos & ask him to move thoroughly inspect workmanship

Wednesday morning Memo. Gas gives 8½ % heat & 1½ light whereas the Electric Light gives 6½ % heat & 93½ % of light.

I should not unite with

anybody to go for Evan. I cannot let Evan light up when he desires but simply notify him that he is expunged

I would pay good attention to the underground conductors business

I enclose application from a man named Paine. I do not know anything about him but thought it as well to send it to you.

Please send out here a man from Decatur to wire my house for 60 lights & have better wiring over Sunday Safety Catches &c &c

Thos A Edison

T. A. EDISON
ENLO PARK
N. J.

11th may 2)

Mayor Eaton

Yours letter 9th inst as to Mr Clarkes letter of 5th returned herewith

I do not see that Mr Clark need be at all afraid that an Arc Light Co if started would prejudice our chances of success if we do not take up that branch of the business & commence operations right away.

If an Arc Light Co is started in Lawrence & they light up all the streets & large buildings it would not make a difference (under the most favorable conditions to the Arc Co) of more than 10% in our earnings when we start to light later on the private dwelling houses.

So far as the incandescent lighting is concerned there is nothing that can be done with the Arc light which we cannot do very much better & when taken in connection with our General Distribution System where the expenses are spread over a wide area, certainly as cheap - to say nothing of the safety and simplicity of our light as

Sept 6
compared with the Arc Light

There can be no doubt as to and ability to light large & large places as at this time we are now lighting over a quarter of a mile of one of the widest streets in London (Eng) under the most unfavorable conditions as the stores on that street (Holborn Viaduct) do no business after 6 p.m. & therefore display no light.

As I have often said the reason I have not given my attention to outside lighting is that it seems such a small factor in the industry of lighting a city & I am quite content that the Arc Companies should get all the business it is possible for them to obtain as I know that from the nature of their light I shall have at least 90% of the lighting to carry for. A Gas Co makes its profits out of the gas sold to consumers whose bills are less than $10 a month

We can make an incandescent light as powerful & certainly far more agreeable than the Arc light

used. We are using in London 32 candle & 50 candle lamps & for weeks we had 100 candle lamps burning in one Lamp Factory here. At Geneva (Switzerland) the Co which controls my light there had 3000 candle incandescent lamps burning for some time.

When the Electric Light becomes an old story Corporations will not pay the price they do for Gas and Light now. In New York city the Gas Contract calls for 4 & 5 candle gas burners & the Corporation only pay the gas Company for this amount of Light. The Brush Light on Fifth Avenue & Broadway gave about 250 candles of electric light. If Gas burners of 250 candles were put up instead the Streets would be lighted just as effectively for now agreeably, and considerably cheaper as the cost of Lighting by gas becomes more economical as the candle power of the burner is increased

When the Arc light is dangerous The wires erected in the Streets are but temporary the chances of them coming in contact

with others ones & them causing
fun am very great.

I feel firmly convinced that
an and Co can not tell em
Lawrence of very long after we
have entered into competition with
them — The safety & completeness
of our system — the agreeableness
simplicity & superiority of our
light & last but not least our
ability to underseell them will
prove more than they can stand
up against

we have no competition
except the Gas Co

Thos A Edison

May 11th 82

Hannington
65 5th Avenue

Inform General Butler not coming in Telephone Dean that I dont want three cores must make it work with two core mercury ~~will~~ wont fly off if well amalgmated, might put one Eight inch and one six inch,

Edison

May 11th 1882

[illegible]
[illegible]
[illegible] as possible
[illegible] (6) Bells
[illegible]
[illegible]

[illegible]

Thos A Edison

Menlo Park N.J. 18th May 2

Bergmann
108 Wooster St
New York

Where is my tripod
Galvanometer also
galvanometer scale
Edison

Dear
104 Grand Street
New York
No difficulty with machine
except taking off current
which cannot be very
difficulty matter. Will
buy to go in Monday
Edison

Menlo Park N.J. 19th May

Edison Lamp Co
East Newark
New Jersey
Send by express hundred
lamps same volts eight
and half per horse power
can be of any one volt
from ninety eight to
hundred and seven. Upton
should come out here
tomorrow for consultation
on alteration Lamp contract
Edison

Chas L Clarke
65 Fifth Avenue
New York.
Bring all data as to
~~two~~ two fifty light machine
with eyes with you tomorrow
Edison

18th May 2

Hon. Geo. C. Ludlow
Governor
State of New Jersey
Trenton
N. J.

Sir,

I beg to enclose you herewith Petition in favor of, and letter from Mr. Richd. N. Dyer asking for, his appointment as Notary Public for Middlesex Co.

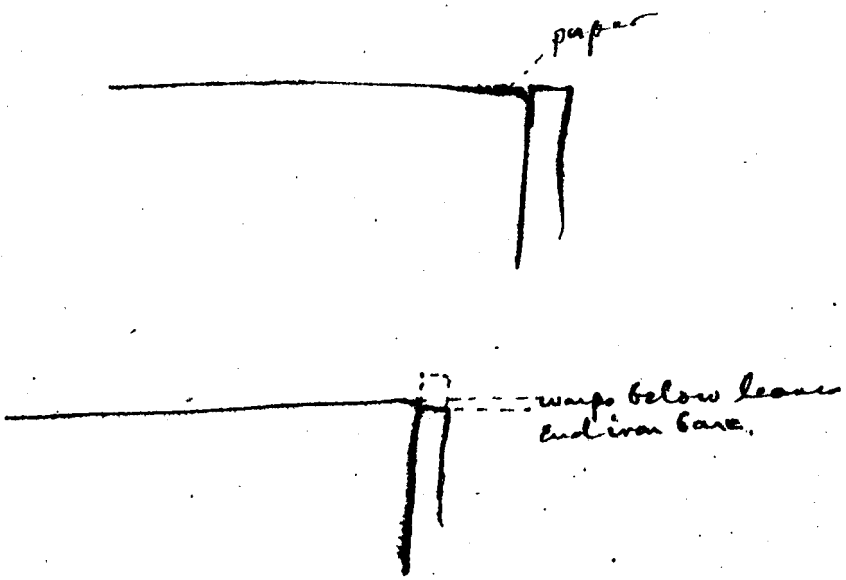
Mr. Farrand Private Secretary Mr. Stockton, L. Griffin acted as Notary during his connection with me and as it is essential for the conduct of my business, that there should be a Notary Resident here I trust that the appointment of Mr. Dyer will be made.

Respectfully yours

Thomas A. Edison.

Dear: 13th May 82

I find the cause of drawing on one of the machines was due to the shrinkage of the fibre ends below the iron cylinder when the wire come down on the iron & burned through although the Edge was rounded. You should have at least one thickness of parchment paper & two if possible put over the surface of the Edge & lap over under the fibre ends thus



You should have an inspector on those winders up stairs as I find nearly every armature is a little different somewhere

Dear.

Dont bore out but a few
fields. for the 250 light
for wherever use the bars
the spark required will be much less
than for the arc.

E

19th May 82

19th May

Dear Wallis,
Referring to yours
letter of 11th inst
wherein you require me to furnish the price
& terms and time of
delivery of it
in Illinois & Cedar Rapids
We assume, I take
have as much to do
during the next two
months on matters
the Central Station
Experimental here &
that it wants us a
very serious matter
if I has to spend time
in correspondence
Yours truly
Thos A Edison

Menlo Park 19th May 2

Chas R. Clarke Esq

My Dear Clarke,

Yours of 17th to hand.

My theory as to plates being lightened is that it is the evaporation of water in Ramon deposit

If Deane Draughtsman is doing the 250 & 15 Light machine all right. If not Ledan must do it. Look to you to see that we get these drawings quickly.

I do not understand your remarks on page 9 as to safety Catches. Please explain.

I think the same size safety Catches should be used throughout

I shall not start any lights outside the Station at all before the new work is complete

Yours truly

Thos A Edison

Menlo Park, 19th May 2

Edison Lamp Co
Harrison
New Jersey

Dear Sirs,

I think you should put in such tools as would enable you to make what we have been making here & also your moulds. So as to relieve us of any more work for the Lamp Factory. I shall simply finish what we have on hand now.

Ed Bradley make out a list of tools that would be required for repairing Dynamos, Heaters, Annealers & moulds & send the list to me and I will give you an estimate as to cost as I have facilities for obtaining tools at low rates.

Attend to this immediately as I want all the facilities I have here for experimental work.

Yours truly

Thos A Edison

13th May 2

Telegram

May 13th 1882

Frank McLaughlin
Park House
Newark N.J.

Going to Newyork Monday
but will run to morrow
Thos A Edison

LD H

Edison Lamp Co
Harrison,
New Jersey

Dear Sirs,

Referring to your favor of 12th to Mr Edison ergo he was prepared to amend the Edison Electric Light Co (London) letters Patent. I will send you copy of the specification as soon as he writes it.

I will see and call on you when I am down your [illegible] way.

Yours truly

Frank Upton

Sec'y

313

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 15th May 82

TO
Col Geo. L. Gouraud
London

Dear Sir,

I duly received your favour of 27th ult addressed to 10th Gardner Street Paris and in reply would beg to state that the entire business billed your order on 17th Inst. was shipped by Dadies & Co. to you on 15th December

Any Book Keepers fair or even knew they could invoice goods shipped in any better manner than they now do except of course that such an oversight as not to bill goods shipped on 15th Dec until 17th Inst should not be allowed to occur.

Shipments of Plant take place from three different establishments i.e. part goes from one place, part from a second & the remainder from a third establishment and it would be impracticable to attempt to bill goods as you suggest. However I will see that in future some method is adopted so as to prevent your having trouble.

It is quite easy to distinguish all Dynamos as it takes four cases

for each dynamo & each case there the number of the machine to which it belongs. As for lamps they are always packed in barrels. each barrel bears the stamp "Edison Lamp Co", & has marked on it the number of lamps it contains, the volts & resistance of the lamps & whether they are a (16 candle or B (8 candle lamps). As to the Electrical fixtures I will send the Boxes marked so to enable you to recognize their contents without opening the Boxes.

I might mention that if you are wanting any machines it would be as well to order them as my Establishment are so pressed for work that all orders will have to wait their turn

Yours truly

Thos A Edison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 15th May 1882

TO

Major L. Bates
U. P. & E. E. Co

Dear Sir

I requested Bergmann & Co to furnish me with an estimate for 20 & 50 Light meters & he quoted $9.00 for the former and $13.50 for the latter in lots of 100 with a promise to give us better terms after the first few orders I think this reasonable for the first quotations

I enclose letter from E. M. Cahart as to position & have written him that I have referred him to you

I return you herewith Dickenson report on the Gaehel Lamp & also enclose letter to be placed before the Board at its

I have no specific complaint to make against Andrews. My only object in requesting you to ask him to examine the book more closely, was merely precautionary not by any means as a censure on the way he performs his duties

Yours truly
Thos A. Edison

15th May 2

S. B. Eaton Esq
Vice President
Edison Electric Light Co
65 Fifth Avenue
New York

Dear Sir

Referring to your request as to what my opinion is as to the course to be adopted by the Light Co in relation to the so called Goebel Lamp I beg to state that I think the Company should pursue the same policy in this case as they have on previous ones. If we were to buy up Goebel it would simply be an invitation to dozens of others to come forward with their fraudulent claims and make similar demands on our Treasury. That Goebels claims are altogether without foundation there cannot be the slightest doubt but it would be as well to have the matter looked into in order to prepare for any attack that may be made upon us from that quarter. The Maxim Co, the American Co, Freeman & Goebel all belong to the same class & doubtless many others will follow

but simply because they make demands upon us is no reason why we should pay them for something that they have not got and that we most certainly have.

As to the Faure Battery I do not think we should have anything to do with it as Faure has nothing valuable to us for General Distributive purposes. Faures Battery is nothing but an improvement on Plante's invention which is open to everyone to use. At an initial cost of not more than £5 00 per Battery the Plante Battery can be made quite equal to that of Faures viz. we could want to use a Secondary Battery this extra cost would be but little as compared with what Faure would require for his invention on which up to the present I hardly think any patent has been granted in this country

Yours truly

T. A. Edison

May 15

John Kinnei Esq
6 - Washington St - N. Y

Dear Sir:

You will recollect that you were to write Mr Edison about his recollection of the Magneto Domestic Bell. If you have done so please let us know what he says. If not, Mr Edison would like to have you write him immediately, calling his attention to the matter as much in detail as possible. If he recollects seeing the bell after his return from Europe, we would want his testimony. Please forward his reply -

Yours truly
Richd. N. Dyer

Telegram

May 16th 1882

Wm Hamilton
881 Broad Street
Newark N.J.

Please send by Express immediately Fifty Pounds of Waste.

Thos A Edison

10 P.

325.

May 16th 17

1

2

W. H. Lawyer Esq

Dear Sir

Do you remember in 1872 or 3 when you were Supt. of the American District Telegraph that I brought over to the Gold and Stock Office a district box that worked by magneto current. It was like the sketch it had a very long handle which in pulling down wound up a Spring and started the wheel provided with teeth arranged at different points. These teeth served to vibrate the lever and armature in front of the magnet connected to the horse shoe steel magnets and thus send waves on the line. It was put up at Gold and Stock and you and Andrews came over and saw it.

I remember that Andrews refused to buy it as it cost too much to make and others made fun of it saying people would use it to hang their hats on. I am in Interference with a party on this and therefore write to see if you remember the original instrument I have. hoping to hear from you soon in regard to it I remain

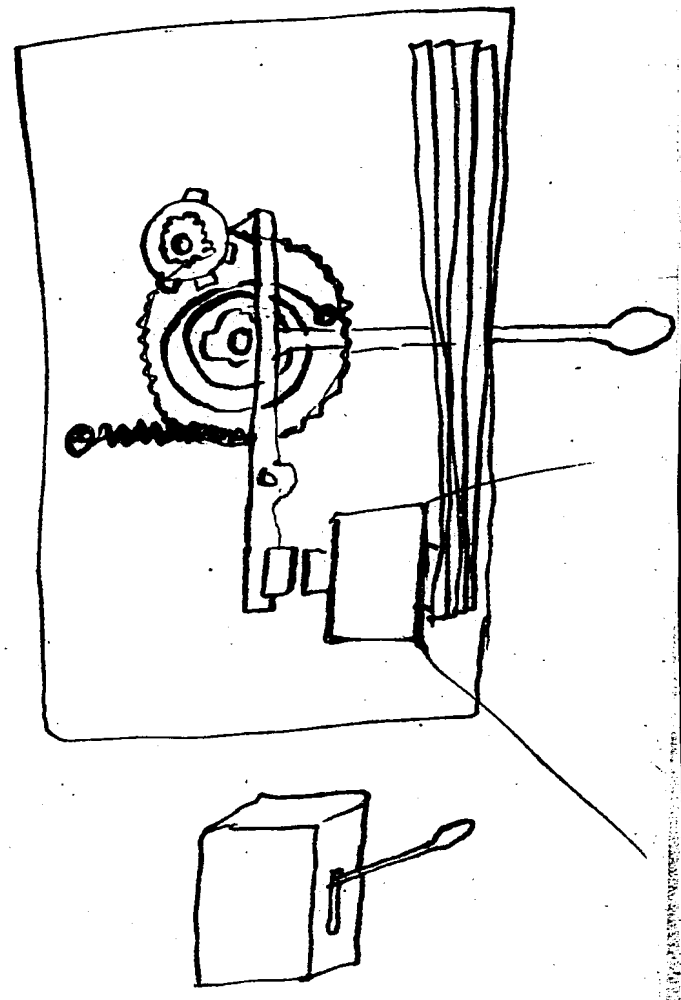
Very truly.

326.

May 16th 12

J. T Murray Esq
Dear Sir

Do you remember in 1872 or 1873 of me taking over to the Gold and Stock a district Telegraph Box which worked by Magneto Currents. It was in a Mahogany box six inches high Four inches wide and Three inches deep and had a very long handle extending out from the box. Pulling the handle caused the Mechanism to send the Signals and Generate its own Current. E W Andrews and W H Sawyer came over to see it Andrews didnot want to buy as he said it would cost too much to make. and some one I think Sawyer made fun of it saying people would hang their hat on the



327.

May 16th 93

2

E. W. Andrews Esq

Dear Sir.

Do you remember in 1872 or 1873 that I showed you a district Telegraph box which made its own currents. It had a permanent steel magnet and Electro Magnet and being provided with a long handle. when the handle was pulled down a Spring was wound up and this acted to vibrate a piece of Iron in front of a magnet connected to steel horse Shoe Magnets. I had it set up at the Gold and Stock and brought you and our Lawyer over to see it. It was in a light Mahogany box about Six inches long four inches wide and Three inches deep. A very long handle protruded from the box

Handle. I have the Original instrument Except the box. Please let me know as soon as possible if you Recollect it and oblige

Very truly.

838

May 16th 12

McKesson & Robbins
Agents
Please send by Express
5 pounds Yellow Chromate of Lead
10 pounds Acetic Acid
5 " Sulphate Lead
10 " Oxalic Acid
to be either in Bottles or Boxes
Very truly
Thos A Edison
R

2

You did not want to purchase it as you said it would cost too much to manufacture I remember that some one made him of it paying People would hang their hats on the handle. I have the the original instrument Except the box. If you have any remembrance of it please let me know as soon as possible and oblige

Very truly.

339

17th may

Drexel morgan & Co
Broad and wall
New York

I accept proposition for India and Australasia will agree give company right purchase all improvements on present patents during their life price to be settled by mutual agreement failing

which arbitration but great care must be taken to exclude future inventions from this provision. This is essential in our joint interests in case I should make original invention at future time Thos. A Edison

18th may 2

Chas E. Dean
Edison machine works
104 Goerck Street
New York

Ordered four pairs of three inch cores thirty six inches long for Dynamo experiment when will first ten two hundred and fifty light dynamos be ready
Edison

Chas E. Clarke
65 Fifth Avenue
New York.

Do you think it safe for Dean to go ahead largely on two hundred and fifty light dynamos After they have found the cores cannot you make test with B bow armature with two Z cores Five cores and A lamps to ascertain the number of A lights this armature will carry without overheating Edison

342.

18th may 2

May 18th 82

Drexel morgan & Co
Col Broad & wall Sts
New York.

I agree to company having improvement for five years they paying cost of patents and consent to the forwarding of powers and patents for India. Should cannot possibly go on until tomorrow

Thos Edison

Hall and Benjamin
Gents

Please send as soon as possible one Dozen Bonfays Paris blay Crucibles with covers three and one half inches in Diameter Five inches high. Three No 1. Three No 2. and Three No 4.—
Black lead Crucibles.
One Dozen No. 000 and one half Dozen No. 00
Berlin Porcelain Crucibles

Very truly
Thos A Edison
R

18th May

Mayor Eaton,

will send you to
about Faure Battery for trial in
a day or so.
Yours memo 15th inst. Quite
letter. We had better take in
patent out. If they stay in
office they will probably get
interference and he will [illegible] to
have trouble whereas if he gets them
out Kellon & Volkmann cannot go
back of their first foreign [illegible]
I am working on Storage Batteries
but not quite in the same line
as Faure, S. & C., &c. Our Compa
might advance the money
out the patents already allowed
& make some arrangement, that
if the patents should turn out to
be essential to my work on
Secondary Batteries, or if we should
want to acquire them for other
reasons that we shall have the
option to purchase them on some
terms to be arranged.
[illegible] your letter from Wa
Pl[illegible] a smart man Supt of
Va[illegible] Mr. [illegible] R. R. Telegra

order an immense circulation
& is considered by men along
that line a great Electrician
& he might be useful to us

I enclose a sheet from Swan
&c. You may find something
in it useful for your Bulletin
Yours truly 16th.

The Defect Report is only
meant for those engaged in
Manufacture & you the Cop Engineer
I do not think it should be sent
copies to the agents now to Havana

Referring to Bleed order we
have no 20 light Dynamo. The 6
will run 17 as do 20 to 32 A lamps

Kinnear is now putting in the
Service Pipes & if you drop a note
to him he will cut in enclosed
Rankin & Co. By proper representation
I think we can get all the paraffin
we need.

Kinnear has got a compound
that will stand tropical heat.

We certainly do not want to have
anything to do with Goebel.

Thos A Edison

345.

18th March 2

Hon Geo. C. Ludlow
Governor
New Jersey

Sir,

I beg to thank you for complying with my request as to the appointment of Mr. Reid N. Dyer as Notary Public for the County of Middlesex

Yours truly

Thomas A Edison

346.

18th May 2

Calvin Goddard Esq
Secretary
Edison Electric Light Co
65 Fifth Avenue
New York

Dear Sir,

Your favor of 16th as to Roller Stock &c at Goerck St came to hand yesterday and I at once telegraphed you asking you to pay the machine works the arrangement being quite satisfactory to me.

Yours truly

Thos A Edison

I

Have had letters relating to matters here addressed to me & to Mr Edison & not to Randolph Street.

18th May 2

Chas L. Clarke Esq
65 Fifth Avenue
New York

Dear Sir,

I enclose you letter from Professor Draper to Mr Edison which please read & return.

Mr Edison has written Prof Draper that you would call on him & put his machine right if he so desired. If you hear from him on the subject you will understand his reason for writing you.

I have never heard from you in answer to my enquiry as to when the 24 candle of the Central Station, 250, & 55 Light Dynamo will be ready. You remain

Yours truly

Sam Insull

15 June 81

18th May 91

My Dear Draper,

I received your letter of 14th inst and was sorry to hear that you do not get the speeds anticipated from the 55 volt armature owing to the impossibility of running your Gas Engine at the rate required. I will try and get an armature wound to give the right volts at your required speed but I think there must be some mistake about the revolutions as the machines are tested and give about nine candles at 2050 revolutions. Perhaps your belt slips on the commutator brushes are set too much forward in the direction of rotation. Please give it another trial and let me know the result.

Our Engineer (Mr Chas L. Clarke Edison Electric Light Co 65 Fifth Avenue) would go up to your house some evening and he would be able to see exactly what you want and calculate the size of wire to suit your Bobbin either in case you cannot get the present machine to

work.

If you want Mr Clarke please write him directly as I have advised him that it is possible you might do so.

When are you coming out to spend the day with me. I want you to come and to bring Mrs Draper with you. Notify me by telegraph the night before and I will be there to receive you.

I shall certainly go up to spend a few hours with you when opportunity occurs but you come little time to come I do not expect to be in the city often

Very truly yours

Thos A Edison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 18th May 82

TO

L. [illegible] MANN & CO.,
[illegible] Wall Street

Dear Sirs

Yours of 18th to hand also the alleged ~~motor~~ machine which I return you by express today. You have put too many wires on and the Commutator bars and all crossed with each other. Please take out two out of the wires that is to say leave one and take out two and so on all the way round & that will enable you to use a wider commutator strip. Please make this change immediately. As it is ~~motor~~ would say that the machine would not work because the commutator bars are crossed. If you find you cannot make a good commutator you might take but even more wires leaving only quarters in & that would certainly give you plenty of room for the Commutator I think you ought to be thoroughly ashamed of yourself to send

B & Co

such a machine and have me
see you could on the slightest
examination see that each commutator
strip is covered. You are certainly
getting very careless indeed with
the orders I give you & I feel very
much annoyed about it.

Yours truly

Thos A Edison

353.

18th March 2

Wm Kline Esq
Telegraph Dept.
Lake Shore & Mich South'n R.R.
Toledo O.

My Dear Sir,

I duly received your favor of 12th inst. & remembered your name thoroughly. Regarding the light I have been in New York for the past year establishing the business there but as that is now running all right I have returned here to pursue further experimental work.

I have therefore referred your letter to S. B. Eaton Vice President Edison Electric Light Co 65 Fifth Avenue New York who will write you Yours truly

Thos A. Edison

Geo A. Bliss Esq
Chicago
Ill.

My Dear Sir,

I am now having a cut of the Electric Locomotive made and I am afraid it will be about a week before I can let you have an Electro

Yours truly

Saml Insull

FROM

THOMAS A EDISON,

No. 65 FIFTH AVENUE,

New York 18th May 92

TO

EDISON MACHINE WORKS,

104 & 106 E. 19TH STREET,

NEW YORK.

Gentlemen,

All Dynamos & engines shipped to Edison Electric Light Co London should have a plate placed upon them bearing the following inscription

Specially manufactured for the Edison Electric Light Company, Limited, London.

Yours truly

Thos A Edison

I enclose letters from Arizona Brass & Copper Co dated 16th to which please give your attention

359.

May 19th 2

Joseph Wharton Esq
Dear Sir
Enclosed you will find one pattern please make one casting of nickel and send to us as soon as possible

Very truly
Thos A Edison
R

May 22d 2

Hon
Henry A Kelsey
Secretary of State - Trenton -
Sir:
I have received the commission as Notary Public, and have appeared before the Clerk of Middlesex County and taken the oaths required by the Statute. I inclose his certificate.
Respectfully
Richd A Dyer

22nd May 2

Drexel Morgan & Co
Corner Broad & Wall Streets
New York

Telegraphed Johnson last night following
Company will have all improvements
upon present patent and all
improvements and inventions in
Dynamo electric lamps conductors
for Electric Lighting. Include railroad
Done manner as London contract
to this satisfactory
Edison

22nd May 2

2

E.M.P.

I suppose you have some resistance in the field of the brg dynamo when you have the load full load on if so try the experiment of setting both brushes one or more commutator blocks ahead of the Centre in the direction of rotation. This will reduce the Electromotive force and the spark and you will reach a point where the volts will be just right with all resistance cut out of the field. The spark will be less at this point with 105 volts than with the same volts & brushes exactly opposite the centre of the slot in the field resistance in field circuit there is also a slight gain in Economy (1E) 38/100 of a lamp per Indicated hp. if the when the load is light the lead spark will be

at the point you have them now = Please write me stating how where & appearance & probable Cause of Crossing Commutator = Inventor if use of too much acid Solution had anything to do with the case,

Yours

E

22nd May/2

Mayor Eaton, Memo 18th May/

I will send to Painter for a copy of Bankers report. Enclosed please find letter from American Light Co. I do not think we should sell lamps to these people or any other company I would however continue to sell small quantities to Professors & others

I have not seen our Papers as to what Weston is doing.

Memo of 20th to hand Thurston Moses. Of course when our Central Station Plant is finished many parties will want to have our light in front of their buildings which they can have by connecting on our light across our mains the electricity being recorded on the meters. Of course we should encourage anything that will help us to sell Carbons If Messrs Moses can procure drawings of an Arc light which I think they will work it might be well to authorize the making of one at the expense of the Company the arrangement being made

L A H

for us to have the control of such a camp in case of its being deserted satisfactory to us decide the company allowing D. Moses to get customers for the camp they to take interest from us they either purchasing or renting the camp from D. M. but the company should dictate what price he should charge & divide profits with him or some such arrangement. Profit meaning profit on the sale and control of the camp alone & not on the sale of interest. The expense of the experiment would be very small because I would not approve of any camp being made that I was not fully satisfied would work & free from all present patent claims Betts. I think his idea should be carried out & not recognize that the Salem company has sold anything that would entitle it to be called a commercial transaction Copper we can get all the pure lake copper we want at moderate

L.A.S.
24

Success I think we have a little too much to do to go into the copper business.

Loney. I have heard a good deal of C. B. Jones & Bros. They may be all right but I believe they are pretty small people but I cannot say positively.

Paine. I should say that we care nothing about the Paine Battery & that the Gramme Co can do as they please in that respect.

Do you know whether Ladd has received full accounts of the American Co's Boston Fairs.

I received two or three copies of Col Navarro's article. It is very nice. I believe you have received it.

I have not seen the interview in the Post.

I think Kinsel should be encouraged to go ahead and undersign. The Bonds & J.B. Do as to your investment. I have told them that undoubtedly it would be all right and that the Co would pay for it especially as

Lake
4

Russel does not change for his
brain power.

I have not decided what to
do with Russel. I do not want
him here. If he would only keep
sober he could prove a good man

I was glad to read your
account of your Washington
trip. It would seem as if all
should come out all right

Yours sincerely,

22nd May 2

S. P. Eaton Esq.
65 Fifth Avenue
New York.

My Dear Sir,

In a letter from Mr. H. Johnson to Mr. Edison dated 9th May the following paragraph occurs:-

"I am now compelled to write
"a long and rapid account of
"affairs to Major Eaton; because
"I come weaker on other
"information, which is conveyed
"by my letters to you does not
"reach him and therefore the
"reference to our work in his
"Bulletin is meagre and consists
"principally of quotations from
"newspapers rather than from
"information from me direct."

In a letter from Mr. Johnson to myself of the same date he in a tone of evident displeasure remarks.

"You suppress all matters that
"I send you from Major Eaton
"& thus make it necessary for
"me to write to him direct and
"as fully as I write to Edison,
"if I write as I certainly do, and

"report of my work here to be
"incorporated in the Bulletin
"which he issues. You have kept
"back from him letters which I
"have written to him and to Lawson
"which had you shown him would
"have enabled him to put important
"information in the Bulletin for which
"I have been looking in vain. Of course
"it is very much easier to criticise
"than to suggest where the trouble
"lies" x x x x

The only reason I can assign for Mr. Johnson making such remarks is some communication he has received from you & I strongly urge to you for some explanation. Upon Mr. Lawsons instructions but far more often upon my own responsibility I have given you information as to progress in Anglesea & whenever we have received letters of a general & not of a private character I have sent them to you for your perusal. So far as I can recollect I have never once refused to give anything asked of me in

this connection but have on the contrary told you of anything of interest occurred by either Mr Gibson or myself from the other side & I have even gone so far as to offer to cable for information for you.

I therefore very naturally feel that Mrs Johnsons remarks are not only not justified by, but entirely opposed to, the facts of the case.

Awaiting your early reply

I remain

Very truly yours

Jane Addams

371.

22nd May 2

R. M. Galloway Esq
Civil Engr
Manhattan Railway Co
71 Broadway
New York

Dear Sir

Your favor of 17th has been forwarded to me here.

I shall be glad to see you down here any time you may find convenient if you will give me notice the day before.

At present we only have a small locomotive & one car. In a week or so we shall have an Electric car with the motor underneath & another Locomotive with ten small freight Cars each carrying four tons. Will you come down now or wait till we have more to show you.

Yours truly

Thos Edison

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, May 28 1882

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

Dear Sir I beg to confirm cable as follows

From you May 2.82. German contract only gives six percentum actual to European this to emau and Pueblas and I agree that Continental must have royalty besides of same per Lamp.

From you May 2.82. Send immediately Hamburg six hundred sockets with and four hundred without cavite.

From you May 2.82 Send quarter ton annulated copper for dynamo.

From you May 5 Have not received remittance account adjourn. Send money urgently wanted Have cabled Pueblo daily leaving settlement German contract them and journey alone.

From you May 6. Send drawings of Eighteen light machine receipt Artificial mica Armature tape wide and narrow automatic feed brush wires straightened

FROM

THOMAS A. EDISON,

No 65 FIFTH AVENUE,

New York, _____ 188

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

From you May 9. Send immediately Tube Companys list cannot make an estimate at all.

From you May 11. Suffering for men send me three men at six hundred francs and expenses per month.

To you May 11. Do you require Isolated men or workmen for shop. Almost impossible send Isolated why not hire men from Seimens Berlin who make arc light installations little practice would fit them.

From you May 12. When are rockets nervure

To you May 17. Shipment annex (5000) a/c annex receive advised letter April eighteenth Price number ten conductor two twenty-five per foot, two and half one eighty-six. three eighty cents. Mussi mailed full details Require immediately Sedalia (5000) account big dynamo began Sam (8750) June first and fifteenth July first and fifteenth balance early in August get adjourning (Sec. Elec. Edison) authorize Wallentin make three payments will get along with less

FROM
THOMAS A EDISON,
No. 65 FIFTH AVENUE.
New York, _____ 188

TO
CHAS. BATCHELOR.
PARIS, FRANCE.

if possible See letter April twenty sixth.

From you May 16. Have Lamb sewer and cable when am socket sewer twenty three

To you May 18 Sewer from Bergmann shipped Amerique twenty sixth April.

Also May 13. From you Cable immediately price of 2 & 2 half am three conductors "Exactype".

The reason I do not receive a remittance from Mr Wallenstein was that he did not understand his cable instructions from Paris & he awaited the receipt of explanations by mail.

I have ordered the commutator copper & it will go forward to you by an early Steamer. Exactly when however I cannot say but as soon as I know I will advise you

There is no eighteen light machine but I have a 16 light machine and in anticipation of your orders I had

14 FROM

THOMAS A. EDISON
[illegible] FIFTH AVENUE
New York, [illegible] 182

TO

CHAS. BATCHELOR,
PARIS, FRANCE

already ordered drawings when
your cable arrived.

As to antifriction metal I
cannot get at any reliable receipt
for gold I should think you can
purchase the metal as cheap in
the market. I have ordered the
Automatic Feed Drill & will straighten
I shall hope to be able to inform
you by next mail when it will be
shipped. I have also ordered the
tape from Kinnear.

I telegraphed Kinnear immediately
I received your cable to send you
a complete list of his plant which
he informs me he has done.

I am really afraid to send
you men for Cochet work. Those
who are any use have good positions
& your position would not be improved
one jot by your having men whom
such people here would be only too
glad to get rid of.

I hope my explanations ~~to you~~ made
as to shipments give you the information
you desire. Everything ordered has

5

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE

New York, _____ 188

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

been sent except one shipment armature wire which goes to-morrow the wire straightener & the tape from Kinnear.

As to the various drawings you want. I have pronounced the Central Station Dynamo drawings this week. The exact form of the 250 light machine was not decided upon until about 10 days ago. The drawings of this & of the 15 light machine will be sent you as soon as I can get them from the Engineering Dept. of the E. L. E. Co.

As to the advances on Bij Dynamos I cannot understand why Boyes should object. It is but a common rule of business & the London Co must as soon as I send them make the necessary arrangements to put me in funds

Yours truly

Thos A Edison

Cable 20th omitted from above

"Boyes strongly opposed to payments Bailey & Lovell voted it through before next Saturday"

FROM

THOMAS A. EDISON,

65 FIFTH AVENUE

New York, May 28 1882.

TO

Arnold White Esq.
Secy Edison G. L. Co.
74 Victoria St
London Eng.

Dear Sir

I beg to confirm cable as follows:

From Yon May 2. 82 Send six thousand light dynamos.

From Yon May 3. Cable prices electric tubing complete brass insulating compound and tape.

To yon May 5. Impossible cable prices tubes will mail full details same.

From Yon May 11. Send one hundred tubes for smaller Dynamo six inches long one and three quarter inch wide three eighth inch thick.

To yon May 17. Arrangement final perfectly satisfactory except Large dynamo on three requires advance five thousand dollars immediately Five thousand June first five thousand fifteenth five thousand July first five thousand fifteenth seventy five hundred August first seventy five hundred fifteenth Ten thousand September first balance on completion, Authorize Drexel honor draft three amounts on date named I can get along with less will do so.

2

FROM THOMAS A. EDISON, 65 & 67 FIFTH AVENUE, New York, ... 188

TO A. M.

6

From you May 19. Have cabled Drexel pay you fifty thousand immediately and arranged future payments as desired. Tell Bergmann send one hundred Johnsons cables latter from Harris Mass.

I am extremely obliged to you for your prompt attention to my cables and for the arrangements you have made, which are perfectly satisfactory and will enable me to push your work ahead rapidly.

On the 20th I drew on you for ~~£834.~~ £1681.94 being made up as follows

Draft for £1026.13.11 being $5000 at $4.87 as per your cable to Drexel Morgan & Co and a second one for £756.0.11 being $3681.94 @ $4.87 being amount of Invoice attached with B/L to the draft. The first item on the Invoice is for goods shipped M.r Johnson on 27th Feb. the second item for goods shipped him on 17th April. These things were shipped under general instructions received from M.r Johnson the promising to send specific orders for the goods

3/ FROM

THOMAS A. EDISON,
NO 65 FIFTH AVENUE
New York, ... 188

named. But as he failed to do so the Lamp Co prevented the Bills to me & I thought it advisable to pay them which I trust will be in accordance with your wishes.

I shall hope to have the pleasure of writing you fully as to your main orders in the course of a day or so — as soon as I have closed arrangements for the manufacture of all the goods specified in the orders.

Yours truly

Thos A Edison

23rd May 2

Chas L. Dean Esq
Edison Machine Works

Dear Sir, Please let me know what sails you purpose using with the 250 Light Machine - with a view of casting on tonight's Steamer

Yours truly
Thos A Edison

23rd May 2

N. S. Keith Esq
41 Liberty Street
New York

Dear Sir, Your two letters dated 18th & 23rd respectively came duly to hand. I will talk to you about the Paris Patents the next time I see you

Yours truly
Thos A Edison

THE MOORE BOOK

28th May 2

Chas L. Clarke Esq
Engineering Dept
Edison Electric Light Co
New York

My Dear Clarke.

Yours of 18th inst.

I have written Dean as to rails proposed to be used with 250 Light machine.

I think your proposal that Stewart dispense with Standard Batteries & C & C a good one but he must be properly cautioned about being very particular to use perfectly clear globes in his photometer.

I think it absolutely necessary that a young man should be sent with them who thoroughly understands taking charge of them

I think your proposed new method of wiring to overcome the difficulty with reference to dispensing with Safety Catch allright

Yours truly

Thos A Edison

May 24

S. B. Eaton

6v = 5 ar W. C.

Will be seen all day

S. B. Eaton

Pueblo Park, May 24 1

Major J. F. Weiler

6th Regt Infantry N. G.

Dear Sir:

Referring to the offering in the name of Lieut 4th & 27th Infantry, together with the blank application signed and executed by Sergeant Thos. Green, offered for enlistment as a recruit in the Regular Army, under the call of the President of the United States for Volunteers, dated May 4th 1898 and addressed to Brigadier General H. C. Corbin, Adjutant General of the Army in Washington D. C. I have to say that the said Thos. Green was duly examined by the undersigned, a Medical Officer of the Army, and found to be free from all bodily defects and infirmities, and to be in all respects qualified for enlistment in the Army of the United States.

Yours very respectfully

Surgeon U. S. Army

2.
of the specs in all of his cases in the future, you will kindly return the rough copies after you have made your copy for filing.
Perhaps it would be well for you to furnish me with a supply of your Edison application blanks, to obviate the necessity for change in the Power of Attorney.
I find that my Edison's record of cases has not the claims in cases 388 to 391 inclusive and in cases 409 to 416 inclusive.
You would do me a great favor by sending me the claims in these cases as soon as possible. The claims in cases 388 to 391 inclusive, I have been trying to get from

3.
you for nearly four months, and cannot continue the record very well without them.

Yours very truly
Richd. N. Dyer.

399.

24th May 2

Mr Martin Connelly
Easton Avenue
New Brunswick

Dear Sir,

Referring to yours letter of 19th inst I have nothing whatever to do with the private debts of my workmen & if Chas Williams owes you money you must collect it from him

Yours truly

Thos A Edison

24th May 2

P. D. Hodges Esq
Elizabeth
New Jersey

Dear Sir,

Yours of 19th inst duly & hand. Mr Edison will not give more than $400 00/100 for the lot in question as he considers the amount asked by Mr Lewis altogether too high.

I have therefore given instructions to have the fence set back

Yours truly

Saml Insull
Private Secretary

24th May 2

Messrs Drexel morgan & Co
Corner Broad & wall Streets
New York City.

Dear Sirs

I beg to confirm receipt from you last evening of the following telegram:

Duke cables "Press generally denouncing cargo cash payments vendors, Anglo-American syndicate who now insist half purchase money shall be taken in "A" fully paid, and "B" reduced in nominal amount to fifty thousand pounds but still to have half profits after six on "A". This in order to make total capital not appear too large. Final basis "A" two hundred and fifty thousand "B" fifty thousand. Edison all "B" twenty five thousand "A" twenty five thousand "B" cash unconditional Intrinsic effect change possibly in our favor as "A" may be worth more than cash. If you approve this basis following Board is absolute: Marquis Tweeddale Sir George Warrender Honorable Lepoco Pruyn (or French) late under Secretary State, Henry Ledyard

Cable of Taylor Benzon & Co and [illegible]
one which decides acceptance. Reply if
possible to Pabbui twenty nine cent
19th & before ten tonight. Pierpont
Morgan cables over Swaddale and
advises acceptance."

I immediately replied to your
Mr Pabbui's private address as below
Proposal acceptable to me. Think
it better than previous one.

Yours truly

Thomas A Edison

403.

24th May 2

Societe Electrique Edison
23 Avenue de l'Opera
Paris

Dear Sirs

Messrs Bergmann & Co have handed me enclosed letter from their shipping agents from which you will see that the missing packages referred to in your communication to Bergmann & Co are lying at Barcelona Spain

Yours truly

Thos A Edison

24th May 2

Mr W. Poole
12a Paternoster Row
London E.C.
Eng.

Dear Sir

Please send me by return steamer 50 copies of your Part II of volume of your Book "Celebrities of the Day" which contains a reference to myself

Present the Bill for same to Geo E. Gouraud 6 Lombard St who will pay the same in execution of Invoice & proof of shipment

Yours truly

Thos A Edison

406.

24th May 2

Chas. L. Clarke Esq
Engineering Dept
E.L. & P. Co.

Dear Clarke,

Please look through the Instructions for the Installation of Isolated Plants & see if you can suggest any alterations also have tables & diagrams in end of Book corrected if necessary & let us have your notes as soon as possible.

Edison is going to reverse the Bath for use of London Coy & we have promised to get our notes off within a week so hurry up!

Yours

Lucell

24th May 2

C. Burnham Esq
Edison Electric Light Co
65 Fifth Avenue
New York

Dear Sir,

Referring to yours of 18th Inst. I enclose you herewith copy of p. 6 of Mr Clarke's letter of 17th inst.

Yours truly

Bird Lucell

407

24th May 2

Arnold White Esq
Edison Electric Light Co
74 Coleman Street
London.

My Dear Sir

Referring to your favor of 9th May, ordering 100 Copies of Instructions for the Installation of Isolated Plant I think it would be better for me to revise the Book & send it to you & then if Mr. Johnson or your Chief Engineer desires to make further additions they can do so.

I shall probably be able to send you my notes in about a week

Yours truly

Chas Edison

24th May 2

J. R. Eaton Esq
Vice President
E. L. Co.

My Dear Sir,

Referring to our conversation as to Instruction Books Mr Edison has decided to thoroughly revise the Book & then send his notes to the London Coy so that they can print it in London

will you kindly send me four copies of the Book so that I can let you have a duplicate of the Revision for your use here

Yours truly

Samuel Insull

414

24th May 2

Alston L. Ryland Esq
616 Olive Street
St Louis

Dear Sir,

I duly received
yours favor of 20th
enclosing cuttings from
St Louis Globe-Democrat.
for which accept my best
thanks

Yours truly

Thos A Edison

24th May 2

Francis R. Upton Esq
Edison Lamp Co
Harrison N. J.

Dear Sir,

I enclose you
herewith letter with
enclosures from Geo Harr.
Machinery Co dated
22nd inst.

I think you would
do well to order the
tools specified after talking
it over with Bradley.

I assume that if
the things are ordered
you are to have 60 days
credit on open account.
& if we decline to give
60 days note at the
expiration of that period.

Yours truly

Thos A Edison

24th May 2

Francis R. Upton Esq
Edison Lamp Co
Harrison
New Jersey

Dear Sir,

I see in the extract from Defect Book for week ending May 20th 1882. a remark about the water going through the Plates of Paris and condensing in the Inside tube. I think this is all nonsense but I should try some experiments by soaking these sticks in water and mix something with the Plaster of Paris-say white wax- that will make them impervious to water. You should answer this Defect Book question Yours truly

Thos A Edison

24th May 2

Major Eaton

Your memo 22nd

I return you herewith S. D. Mott Statement. The proper way for him to proceed is to make sketches of what he has and also copies of patents and then I can go into the matter intelligently.

I enclose herewith newspaper cutting which may be useful to you

Thos A Edison

420.

"Telegram"

May 25th 12

F. A Scheffler
65 Fifth Ave
New York City

Have 2 gob. draughtsman here for Locomotive Work can you come out to day or to morrow

T A Edison

926

Received Washington Bldg
May 25th 12

Dear Sir

I am writing to
know what you would
charge for sketches
or drawings of your
Alcove Electric

422.

Menlo Park N. J. May 2nd 2.

Hon. Comm'r of Patents.

Sir:

I have forwarded by express today the petitions, specifications, oaths and drawings of four (4) applications of Thomas A. Edison, numbered respectively #17, #18, #19 and #20.

Inclosed herewith his check for $60 00/100, to cover the first fees on the cases.

Respectfully,
Richd. N. Dyer

20th May 2

Col Geo. E. Gouraud
London
England

Dear Sir

Yours of 12th inst enclosing copies of agreement of 10th came to hand this a.m. This will enable me to close up this matter (European Telephone) & I shall hope to have the pleasure of visiting you and this business in a visit of ten days

Yours truly

Thos A. Edison

423.

24th May 2

A. M. Cherbuliez Esqre
10 rue Petitot
Geneva

My dear Sir
Mr Edison having mislaid the original Contract made between him and Messrs Cherbuliez Jurlinden & Biedermann, he has asked me to request you to have a certified copy made of the Original you hold. — Please have the copy made and certified by Notary public as well as by the United States Consul in Geneva and forward it to Mr Edison - Orange

my dear Sir
Yours very Truly
Emil Biedermann

25th May 2

Mr Rocap
Edison machine works
104 Goerck St
New York

Dear Sir,
I wrote you on 17th inst for full information as to Dynamos shipped abroad. I want this information very badly indeed and would request you to send it to me at earliest possible moment.
Yours truly
Samuel Insull

425.

25th May 2

S. B. Eaton Esq
Vice President
Edison Electric Light Co

My Dear Sir

I enclose herewith letter from Mr E. H. Johnson dated 8th inst with enclosure attached which please return after noting it.

Yours truly
Samuel Insull
Sec

25th May 2

Ernest Biedermann Esq
P. O. Box 56
New York.

My Dear Biedermann

I enclose you herewith copy of Contract as published. This copy is an exact transcript of our Office Copy written in Griggens handwriting.

I have written A. M. Cheriulus of Geneva for a certified copy of the agreement he has in his possession

Yours truly
Samuel Insull

430.

25th May 2

Arnold White Esq
Secretary
Edison Electric Light Co.
London Eng

Dear Sir

Yours favour of 11th inst came duly to hand this a.m. & in reply I would beg to state that I will be glad to see the representative from the Manchester Edison Co to whom I will give the necessary facilities to get information &c &c Upon demand confirmation &c

Yours truly

Thos A Edison

25th May 2

W. H. Preece Esq
Washington
D.C.

My Dear Preece

Professor Barker of Phila has made a report to the Mint people on the Maxim Light at the Phila. Mint. It is very favorable to us and I should like to get a copy in such a manner as to enable me to use it in print. Can you arrange this?

Yours very truly

Thos A Edison

20th May/2

Dear Kinnear

Mr Fabbri spoke to me the other day about Electric Light for A.M. & Co office. He feels very doubtful about it & thinks that Diesels should have it put in first.

Mr Edison told me to tell you about it & to find out if a circuit could not be run across the road to their office. Please look into this at once as the Office should be wired if the matter can be arranged.

Do you know anything about the man Hill. Edison has told me to get it fixed up for him & to take Yours

20th May/2

Chas L. Dean Esq
Supt
Edison Machine Works
104 Goerck St

Dear Sir,

Yours of 2d inst duly to hand in reply beg to state that the 4 - 250 Light machines you located to meet have been wound Armatures

Yours truly

Thos A Edison

25th May 2

R. M. Galbraith Esq
Rawlings
Wyo

My Dear Sir,

I have examined the ore you sent me and find it contains about 60% of carbonate of copper 15 ounces of silver per ton. The hard ochrey like substance that you found on a stone is a double oxide of copper and iron.

This is a splendid ore if you have plenty of it. It can be worked right on the spot with a Dynamo machine and steam engine. What is the price of steam coal per ton delivered at Rawlings

Yours very truly

Thos A Edison

434.

25th May 2

S. B. Eaton Esq
Vice President
E. & L. Co.

My Dear Sir,
Enclosed please find Receipt from Union Clemichs dated 22nd may which kindly oblige

Yours truly
Fred A Keiser

25th May 2

Mr. J. A. Wardell
240 Broadway
New York

Dear Sir
Referring to yours of 24th Mr Keiser request me to state that you can put off coming here for a week if you so desire

Yours truly
Saml Sewell
Secy

435.

26 May 2

Francis R. Upton Esq
Edison Lamp Co
Harrison
N. J.

Dear Sir,

Referring to your
of 24th the number of 16
high work lamps for
testing as we have
1000 lamps of 97-8 work
& we want to put them
all on the same line
& any new lamps we
have must be of the
same work as those
now being used

Yours truly,

Thos. A. Edison

25th May 2

Major Eaton

Your memo. of 26th
I think Dr. Moses should
be content with 1/3 of
the profits but I do not
wish you to say that
I said so

I have no use for
the young man you
refer to at present but
that I think the Light Co
should take him. They
certainly need such
men

I do not want to
have anything at all
to do with the Stevens
Battery & Stevens Patent
interferences - outside
of my experiments here

Yours &c

Thos A Edison

25th may 2

Arnold White Esq
Secretary
Edison Electric Light Co
London

Dear Mr White,

I enclose you herewith full information as to the Electric Dynamic Co of Philadelphia

The information is thoroughly reliable as it is the duty of the Examining Electrician to keep thoroughly posted as to all Electric Light Corporations.

Do not hesitate to call on me for further particulars if required

Yours truly
Saml Insull

24th may 2

Messrs Fabbri & Chauncey
P O Box 1471
New York

Dear Sirs,

Referring to your letter of 24th inst I beg to enclose India certificate of Deposit on Electric Light Nos 3, 4, 5, 6, 7, 8, 9, 10, 11, ~~12~~, 14, 15, 16, 17, 18, 19, 20 & 21.

No 12 is the Rail Road case which I retain as it is not included in the sale now being made. No 13 has been divided & new forms issued of the latest cases & certificates for these have not been issued

I have received no certificate No 21 yet

Yours truly
Thos A Edison

437

Menlo Park N.J. May 25 82.

Hon. Comm'r of Patents

Sir: I have forwarded this day by express the petitions, specifications, oaths and drawings in two applications of Thomas A. Edison, numbered respectively # 17 and # 18.

I inclose herewith his check for $30 00/100, to cover the first fees on the same.

Respectfully
Rich'd N. Dyer

"Telegram"

May 25th 1882

Geo Worthington
Newyork City

Will be home Monday.

Thos. A. Edison

536-

May 27 1

Major General
Adjt. Gen'l's Office -
Dear Sir,

Gen'l Nicholson's petition
in case of Lt. Col. Nicholson
for Brig. Gen'l Brevet
herewith. Gen'l Sheridan
recommends favorably
upon
Gales Landgon Kennedy,
Stephen Augustus Cutler
Cadet 11th Infty, Allen
Jno. O'Brien Lt. Colonels
Cavalry Brevet Kinsley
Thos.

May 27 1867

Yours truly
Richd. J. Oglesby

P.S. Please return
Gen. J. Brooks claim
Treasury Dept. Claim
Kindly
Yours truly
Richd. J. Oglesby

29th May 2

Messrs
Messrs De Groot
P. O. Box 2412
New York

Dear Sirs,

I have your favor of 25th inst and in reply would beg to state that I cannot (owing to my contract with the Edison Electric Light Co) negotiate with you directly as to Electric Light for Mexico.

If you will communicate with S. B. Eaton Vice President Edison Electric Light Co 65 Fifth Avenue New York, he will put you in communication with the right parties as I have written him requesting him to do so.

Yours truly
Thos A Edison

29th May 2

Mr W Dear Draper

Referring to your letter of 26th inst I have written to S. B. Eaton Esq. Edison Electric Light Co to send you up a model machine in the place of your present 55 volt machine.

You will no doubt receive the new machine in the course of a few days

Yours truly
Thos A Edison

446.

29th May 2

Dear Graves,

P.A.S. wrecked Senate Report on Underground Conductors & also copy of Senate Bill No 152 from you. He wants to know exactly how the Bill stands now. Can you enlighten him

Yours

Saml Sweet

29th May 2

Calvin Goddard Esq
Secretary
Edison Electric Light Co
New York

Dear Sir

I have arranged with Mr Kinnear to put a service pipe into Drexel Morgan & Cos office from the mains on the opposite side of Wall St. would you kindly see that D. M. & Co. office is wired as I think Mr Fabbri and Mr Wright are very anxious to have their office lighted up before any other consumer

Yours truly

Saml Sweet

29th May 2

W. H. Painter Esq
Washington
D. C.

My Dear Painter,

Referring to the Bill now before the Senate, for the protection of purchasers of patented articles buying from Infringers of the Patents, if the act provides that the purchase shall have been made in good faith, and that no notice of such sale being fraudulent shall have been given, I should see no great objection to its enactment if a clause was inserted giving the Inventor some remedy against the parties who wilfully pirated his invention by such sales. Such patent pirates should I think (upon proof being given that they were fraudulently selling the Invention of another) be sent to the States Prison. France sets us a good example in this matter as Infringers there are, I believe, liable to be sent to Poulon to work in the Chain Gang for five years. I think if the proposed act passed in its present form it will simply be an act for

the Encouragement of Patent Pirates.
I see not the slightest objection to protection being given to an innocent purchaser of a pirated patented article but I think it would be a great injustice to give that protection at the expence of the Inventor & Patentee.

Congress when attempting to give protection to the purchaser must not forget the interests of the Inventor, and should at the same time take radical measures to discourage the now too prevalent practice of patent pirating.

Yours very truly

Thomas A. Edison

29th May 2

My Dear Painter,

Yours of 27th came duly to hand & I beg to thank you for the information as to Marcin Hall at Utica. Mem. Do not forget to get that report for me when it is received.

Johnson has certainly made a great success in London

I have written to Rowney about the Isolated Clock he promised you

It is possible to take current for our lamps from the Light Circuit but as the principles governing the two light and different I do not think it would be advisable. A secondary Battery could be used charging it from the Arc Light Circuit & then running our lamps with the Battery but in the present state of the Art this would prove altogether too expensive.

We shall however be able to run Arc lights in connection with our Central Station System, taking the current from our mains for the Arc lamps. We require an Arc lamp for this purpose of a slightly different construction to those generally used

Yours truly

Thos A Edison

29th May 2

Edmond Murray Esq
French Consul
76 Monroe Street
Chicago Ill.

Sir,

Referring to your favor of 25th inst I regret to say that I am unable to give you any details as to the working of Telephones in your Consular District as personally I have nothing to do with the business beyond receiving a certain fixed royalty for the use of my invention.

Although there are at the present time comparatively few telephones in use bearing my name yet there are none, so far as the Transmitter is concerned, of the many forms that are in use, that are not covered by my invention of the Carbon Telephone. The main feature of this invention is the use of Carbon in a Telephone transmitter which is covered by my American Telephone patent. The Bell Transmitter & other forms of Carbon Telephones could not been used by the American Bell Telephone Company but for the fact that they bought my Telephone [illegible] from the American

Telephone Company & show I could all my Telephone rights some years back.

Yours truly

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, May 27 1882

TO

C. Lia & Gerard

6 Lombard St

London Eng.

Dear Sir

I beg to confirm cable as follows

Rom yon May 27.82 Have you signed Patents sent my letter March sixteenth cable. The papers are signed under the exception I there returning to "[illegible]" as instructed by you. Beg and enclosing the receipt of R. B. & Co. and There is a draft condemned so one cannot get the certificate till another or the papers will go by Thursday steamer

Yours truly

Thos A Edison

FROM
THOMAS A. E[illegible]
No 65 FIFTH AVENUE
New York, May 29-82

TO
Societe Electrique Edison
Paris France

Gentlemen

I beg to confirm cables as follows

From Yon May 16. Sent Antwerp Three samples all three fixtures two hundred lamps hundred candles.

From Yon May 25. Wallenstein Antwerp say how fix thousand - Heradite

Heradite May 28. Have amount can spend samples fixtures three cash cost sixteen hundred dollars. Dare no. hundred candle lamps how about further advances large dynamo. Edison

I think when giving orders of a discretionary nature you should state what amount I can spend as I do not care to act upon myself as responsibility of ordering things for you when you give me no idea as to what expende I am to.

I have been paid by Mr Coolidge $5000 on account of the large Dynamo ordered by you but he says he has no instructions as to further payment

I therefore thought it advisable to cable you as to the matter. Three Dynamos are being pushed forward as rapidly as possible & will be finished in about six weeks or two months I cannot however undertake large work of this character unless arrangements are made for advances to me on Ape. The American & English Companies make such advances to me for large Dynamos built for them.

Yours truly

Thos. A. Edison

C. A Edison Esq
57 Wellington Viaduct
London Eng.

May 29 2

Dear Sir

I beg to confirm cables as follows

To you May 22. If economical regulars don't arrive use eight candle A two sixty ohms giving ten candles for economy test. Regulars goes Wednesday

Also from you May 17 the following which was cabled in my last advise to you "Quote, purchasing price Parent Stock. How soon can you ship some dynamos ? none urgent important."

Insull has taken the question of Stock on hand for you.

May reason for telegraphing you to use eight candle "A" lamps was because the Ramp Co had not started up & they were uncertain as to when they would have steam to enable them to test lamps to send you for the purposes of the Crystal Palace Test

Yours truly
Thos A Edison

May 2.

My dear Sir

Enclosed please find [illegible] from Professor Dolbear. He wants 100 volt 8 machine. Name "A" Edison Laboratory to replace the present 50 volt machine. Will you please see to this attended to.

Have called letter of 28th E.J. Survey. I have written him & I have referred it to you.

I have also written to Prof Dolbear, letter enclosed) stating that if they communicate with you, you will put them into communication with the right people to negotiate with or to discuss light

Your memorandum of 29th ult.

I think that it is absolutely essential that the Company get a man of good address and business qualifications (whom they can easily afford to pay a large salary) to visit the different cities & work up the local companies. We are badly behind hand in the interests as compared with other Companies which are now receiving their attention from the start & I think we

V/

should then form one Company all over the Country, with great rapidity & move at once before the things get to be an old tale to the d[ea]f mobs. I think a quarter or a third or enough. We cannot have the use of my carburator, when he gets a drawing which looks right & the first from patents can be made by Bergmann & Co. at Gower St.

There will probably be danger in receiving our patents in Canada as the surrendered patents would expire and probably affect the american Patents.

Dear Mott. we cannot any things when we do not know what they are). Let him give a diagram of what his things are with copies of patents already granted & copies of applications pending then we can see something about it.

I see a curious fact that London Bankers & others do not see that there is another advantage

87/

on new buildings because economy
that is its high recommendation even
for Electric Lighting. For instance
to save only five % in wiring a
building can the appreciation and
loss with its owners such transaction
& Can they would have to spend
$100 if they wanted to get the same
protection as does if they put in only
the same amount of copper as
we do they save about 25% on their
conductors. This is a point I have
never heard spoken of. Just think
it over a little. All these people are
using wires about the same size
as ours and they do not appreciate
the enormous loss they have upon
their conductors & it is just as
well as for us our interests are
concerned that they should not
know.

Our wire Painter. He says
Brookes expects to not on file
yet but that he will get it when it
is wanted.

How about forming a Company
in Philadelphia. I think it is about

time.

You might well ask "Where is Francis?" when then talk about 10 per horse power each so much power with 1000 hours life for a dozen lamps. These fellows are a gang of liars I will turn out just as the main Crowd did.

Regarding your long interview with Hadley from what I know of him previous to his going into Electric Light business I look upon him as a man who deceives by excessive frankness. I should not worry myself very much about the Brush Company & Mr Hadley's existing secondary Batteries I feel sure of non-user on Hadley's statement that Brush says he can do this & that "compound multiple arc" &c &c. If you are inclined to let your look at my specifications for working in parallel & multiple arc in connection with the Brush arc light & machine you could do

they I have pretty well advised that matter up and the applications have been in quite a good while & no one can hear me on it & in an interference as in 878. I worked arc and incandescent lights in conjunction on all kinds of keys.

I understand lately they proposed when they use the lights with a great many on a circuit to put in secondary batteries storing up electricity in the day time and at night when the circuit is required for arc lights using the storage batteries to feed the incandescent lamps and thus all for the sake of using smaller wires suspended on poles.

This would be analogous to a new gas company starting with a one inch pipe suspended on poles, putting gasometers in each manhouse & then conveying the gas under great pressure so that the customers can use [illegible]

at night from their own
gasometer & not from the mains.
As people who use light are only
25 p.c. apart. I think you will see
the advantage of gas when it takes
only one length of tube to go from
one house to the other, the first cost
of which is infinitely less than
to have secondary batteries as a
substitute - In fact my Stockey
talk in this connection is pure
nonsense.

Of course it can be done
but there is no economy in it
and it would be very unreliable
as I have said before. I think we
had better keep fuel for our
arrangements with any body
and save all our energies
for prosecuting with the utmost
rapidity our own interests at the
same time getting ready to
defend our rights before the
Court.

I think from reading your
memo. that the Queen & Civil
Service Light and that they would
have

go ahead with it. But that will do them more harm than good.

I cannot see how one can have any confidence in a man who tells that he has received advice from Heaven has ordered up in candescent lighting yet two days they must have the incandescent light & yet not two come one tells & consequently on their own words it is natural to presume that they are knowingly going to the Lower people - Defrauding of their rights.

Darcem up Stanley has a good wife thinks her of great value to him but he thinks a second wife would be an advantage that how would he better than one to be put up some one else to capture me wife for him & then proceeds he has nothing to do with it.

Above all things I would not have the Grahame Co. have anything to do with our litigation - They are perhaps hands for getting information as to your motives &

8/

came to hand this p. on. I would
not call Isolated Hands to the American
Coy. If they give you an order
you cannot decline it give them the
usual commission but I do not
think it would be advisable to
do anything further.

Thos A Edison

29th May 82

Mr Burnham
Carriage Builder
Ramsey
New Jersey

Dear Sir, Mr Edison is very
anxious to have his carriage
by Friday morning as he
is going to have company
on that day.
Can you get it
finished by then
Yours truly
Thos A Edison

E. Keasbey
65 Dey St. ave
New York.

Shall be here all day
Edison

W. J. Penny
Gen. E. Hunting
45 Exchange Place
New York

Dont buy any more
Patent Stock at present.
Insull

Francis R. Upton
Edison Lamp Co
Harrison N. J.

Shall not be in City
today Insull

31st May 2

Drexel Morgan & Co
Corner Broad & Wall Sts
New York

I authorize you cable Johnson authority sign requisite Indian and Colonial papers under Warehouses approval pending arrival formal documents

Thos A Edison

31st May 2

W. P. Edison
Joel Heron
Newark

Have authorized Drexel Morgan & Co of New York to pay your draft on me for four hundred dollars

Thos A Edison

31st May 2

Edison Lamp Co
Harrison
New Jersey

Johnson cable. Very important have fifty or hundred candle lamps promptly promptly. Can you ship five hundred either kind. Cable ends. What can you do

Thos A Edison

69

2nd May 2

Messrs L. Bergmann & Co
108 Wooster St
New York

Dear Sirs, Referring to Foreign order No 41 please ship one sample of each fixture (instead of three as previously advised) together with three photographs of each

Yours truly
Saml Insull

2nd May 2

Messrs E. P. Hampson & Co
Cortlandt Street
New York City

Gents Referring to your postal of 29th ult. wherein you consider your price for Engine at Camp Factory too low, has decided to keep the Engine for the present

Yours truly
Saml Insull Secy

470.

31st May 2

Arnold White Esq
Secretary
Edison Electric Light Co
London Eng

Dear Sir,

Again referring to your favour re the marking packages sent you I beg to state that I have arranged that each establishment shipping to you will mark as follows

Edison Lamp Co — E. L. Co No.....
Electric Tube Co. — E. T. Co No....
Edison Machine Works — From Edison Machine Works &c
K. No
B. & C. No....
Bergmann & Co

Each consecutive will number these packages consecutively commencing with No 1 so that as if your store keeper makes note of the last number on package received from certain establishment he can tell, when he receives another shipment from that establishment, by looking at the numbers on the packages whether he has everything in order. These numbers will be noted on the Invoices

commenced to use this style of
numbering & the others establishments
will do the same in future
shipments

I found it impracticable to
number each package sent you,
from whatever establishment,
consecutively but do not think any
confusion will arise from there
being found sets of numbers preceding
ordinary case is taken by the
storekeepers of your Company.

As I presume that the goods
we are shipping you will not all
be required in London I would
suggest that you give me instructions
to ship to other ports such as Glasgow
Liverpool Bristol, Barrow &c and thus
save you considerable expense in
freight & handling as the rates to
most English Ports from New York
rule about the same

Also let me know whether there
is any objection to shipping part
of your order by Sailing Vessel
instead of Steamer as I think I
could save you considerable expense

and thus simplify the checking of your accounts.

The letter "K" on machine works package refers to the nature of the machine i.e 250 light. Thus K.3. N°4 would mean 250 light machine N°3 (being our shop number) & the fourth package shipped to you by the Edison machine works.

Our various machines are lettered as follows.

Central Station Dynamo	"C."
250 Light "	"K."
60 " "	"G."
15 " "	"B."

As we turn out a fresh style of machine I will advise of the letter of the alphabet by which it is known in ordering machines or anything belong to a machine all you have to do is to mention the letter by which it is known & we shall understand what you want. Thus if you cable "Ship hundred Brushes K. Dynamo" we shall know you want brushes for the 250 light machine & so on.

The machine works have already

freight in this manner.

As to the Plate to be put on machines for you as orders are coming in from all quarters and almost everybody wants a different plate I have had to make it a rule to put on no plate at all except the shop plate and leave to the Companies themselves the work of fixing on whatever plates they may decide. You will therefore take this as cancelling the remarks contained in my previous letter on this subject

Yours very truly

Thos A Edison

4 L

21st May 2

N. S. Keith Esq
41 Liberty Street
New York

My Dear Sir, I am acquainted with the principles involved in your process for Refining and deliverizing base bullion and if worked on a large scale I believe it would be a commercial success.

I hope to make more accurate experiments as soon as I have the time with a view to ascertaining the exact cost per ton when working the process on an extensive scale

Yours truly

Letterbook, LB-013

This letterbook covers the period July 1882-November 1883. Most of the correspondence is by Edison. There is also correspondence by Samuel Insull. Most of Edison's letters are in the hand of Insull, acting as Edison's secretary. The correspondence and other documents in this volume relate to the electric light business in the United States and Europe. Of particular significance is a letter from Edison to Charles Batchelor containing drawings and descriptions of lamp improvements in Edison's hand. Other important recipients include Calvin Goddard and Edward H. Johnson. The spine is labeled "1882-1883" and is stamped "Letters Personal No. 1. T.A.E." The book contains 299 numbered pages; pages 27-299 are blank. There is no index. All the pages have been filmed except for blank pages and duplicate copies.

USE THE
ACME
PADS,
PAPERS & BLOTTERS.

ARDEN'S
DOUBLE INDEX
PATENTED
July 25th 1871.

24th July/2

Major L B Eaton
Vice President

Dear Sir,

Mr Edison desires me to inform you that still having doubt as to which of his cases Major Coltheb has filed he (Mr E.) have sent to the Patent Office to find out privately just what Maj Coltheb has filed

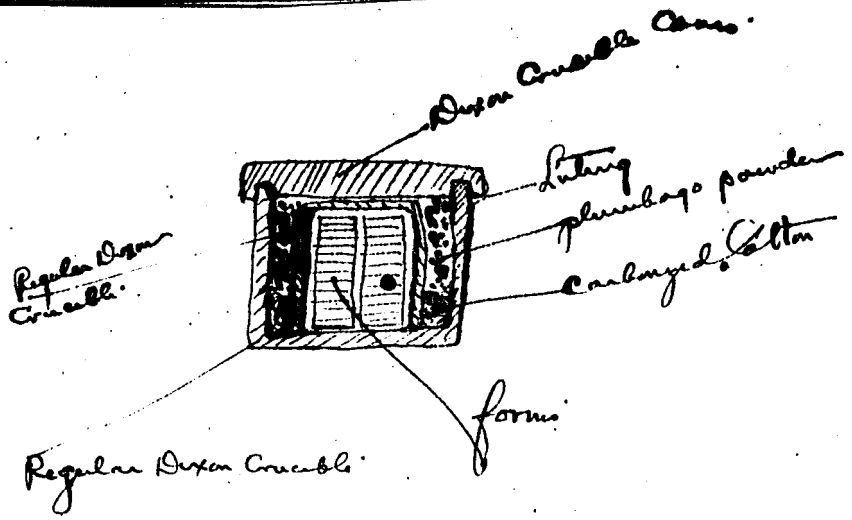
Yours truly

Saml Insull
Secy

Batch - Menlo Park
31st Aug

Latest dodge Carbonizing -

We are using Carbon forms & weights for holding fibres instead of Nickel and are getting even better Carbons - I will send you a Sample by mail of complete form & weight so you can make a dies & punch -
They are pressed in Screw press little larger than ours & use ground gas retort Carbon mixed with minimum quantity of Crude anthracene thinned slightly by Kerosene or Crude Coal Tar. put a little more pressure than we did on Chacles & then lay forms ete on flat iron plates & bake very gently up to say 400 or 500 Fahr so they don't blister & warp then put them in your Carbonizing Covers & bring up the same as you would fibres in Nickel forms (1) Just as slow then you are OK & will never have any more trouble about melting forms ete, We have run over 50 hours with them & they actually improve Another thing we do we use don't [illegible]



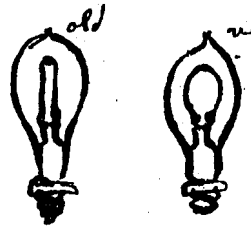
The Cotton should be carbonized first & only to a red heat it is then very sensitive to Oxygen The object is to keep out oxygen,

with Carbon forms you can go up to as high a Temperature as your fire brick will stand = we are using a special fire brick used by ~~what~~ to melt nickel you can doubtless easily get good ones there

I have asked Upton to send you why drawings of our new furnace we have 4 going they work splendid,

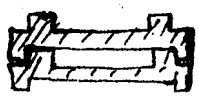
= We are running through several hundred Lamps the Carbons of which were laid out straight in a bundle between Carbon blocks also in bundles tied with thread & Carbonized afterward the Cotton is bent as a loop & put in

Clamps and plated, they seem to be as good as regular + make far nicer Lamps as they follow the Contour of the bulb



There is no trouble putting them in bulb as the bulb is previously little bell mouthed + it acts as a squeezer

An improvement you might adopt in making your forms over ours is



overlapping. this will prevent circulation of oxygen

I forgot to say that we put two fibres in our moulds more than

Yours

15th September 2

My Dear Batchelor,

Referring to Edwin's letter to you of 13th inst Edwin has told me to write you some little explanation.

Bailey says that Moses was a great deal worse than useless, that he did practically nothing, that on several occasions at time he would absent himself & that his claims are altogether preposterous.

An identical letter was sent to you & Pucker & Bailey with the object of getting officially the exact facts of the case so as to enable Edwin to shut up Moses either with the evidence of his uselessness & so with a reward for his good services. Moses claims that he was at great expense in Paris that he was obliged to entertain largely, & to sum it all up that he

rendered very Great services to Edison & his Coy. Bailey denies that he had to entertain for Mr Edison that he rendered but very little service indeed, that he was totally unreliable, that a great deal of time he was attending to his Photo Relievo business. Money was got from Edison $2000 on a/c of his expenses and Edison gave him 50 chance of European Light Clock & has no intention of giving him anything more. Money has been repeatedly asked for & details a/c of his expenses & to reduce his general statements as to what he wants to a demand in black & white. He has done so at last & I give you below a copy of his letter, for your information and amusement.

"Memorandum

"Dear Sir New York Sept 1 '87

"As the time has arrived for

"a settlement of our account
"in regard to my visit to Europe
"for the purpose of assisting
"in disposing of your patents for
"Electric light, I beg to make the
"following statement. You asked
"me of your own account to
"represent you at the Paris Electric
"Exposition and by every means in
"my power to accomplish the
"desired object viz: the favorable
"sale of your European Patents
"and the general removable of
"any obstacle thereto. This I have
"done to the best of my ability
"occupying nine months of my
"time exclusively with this business
"As compensation for my
"time and labor I beg to submit
"a charge of 2½ % on the proceeds
"resulting to you from the sale
"of said patents

Truly yours
Alto a Moses"

T. A Edison Esq

4/

I can imagine how amused you will be on reading this epistle. I am just going into Newark to see Edison about replying to it & I will advise what the reply is.

Moore is just a nuisance to Edison. He makes out he kept Edison standing on a street corner till away into the night and as a consequence Edison caught cold, which was one of the causes of Edisons sickness, not content with this Moore still continues to worry Edison & I am going to make an effort to get the thing settled. Now beyond question & if I am not mistaken the settlement will be a refusal to do anything more. More of this later

Yours truly

Saml Insull

6

10th Oct 2

George Washington Esq
P. O. Box 3329
New York

Dear Sir,
Referring to your letter of yesterdays date by direction of Mr Edison I enclose you herewith check for $246.50/100 (two hundred $250 less 6% discount) for which he holds your 90 days note

Yours truly
Saml Insull
Private Secretary

21st Oct 2

Received of Mr R. C. Bradley the sum of three hundred dollars in payment for furniture in house occupied by him at Menlo Park New Jersey

Thos A Edison
By Saml Insull

7

10

15th Feby 83

Calvin Goddard Esq
65 Fifth Avenue
New York City

My Dear Sir

I beg to hand you herewith Powers of Attorney in your favor relating to the exploitation of my Electric Light & Electric Rail Road Systems in Switzerland for consideration.

If you will give your attention to these matters while you are in Europe I will give you ten per cent of the net receipts to me from the working of my Electric Light & Electric Rail Roads in Switzerland.

Yours truly

2

18th Feby 1883

Statement of Liabilities

Cash in B. of N. 99.25
" " D. M. Co 20.74
$119.99

Sundry Bills	4711.73	
Bergmann & Co	284.69	
Edison Machine Wks	999.80	
C. Batchelor	2889.47	
P. R. Upton	882.18	
Porter Keasey & Co.	1763.86	
Reed N. Dyer	672.32	
San Francisco Gas & Imp Co	810.99	
Drexel Morgan & Co Loan	39577.80	$52592.79

Foreign Orders

Edison Lamp Co	556.61		
Bergmann & Co	1065.35		
Armington & Sims	6825.00		
Electric Tube Co	5781.42		
Edison Mach Wks	3256.70	22490.08	
Geo Edison	551.16		
Ind et Comte	292511		
Lee Meter	4435.00		
Meltini	1402.29		
E. Co London	6398.89		
Mc Armature	8900	19022.45	$8467.58

(c) not payable till we collect it

Alaska
Juneau
5th March 8

My Dear Johnson,

Your letter of 16th Feby came duly to hand.

From what you state I very much dispair of any great good being done by your visit to England. From your letter and from letters from White to Looney I judge that our London Friends think they can get on better without us & so the best thing is to let them do so and to give our attention to the "western Empire" alone. I think you had better do the best you can to get through by the end of this month and then come right back here as there is plenty to do and few to do it.

Just now we are doing all we can to assist the Village business. There is immediate money and plenty of it in the business and I purpose getting up some big Syndicates in order to boom the business and by this means provide work for our shops

I am more than ever convinced however that if the business is to be made a success it must be by our personal efforts and not by depending upon the Africa Trade Companies. For that reason I

think you should hurry back as we want you to associate. We know there is plenty of money to be made & in our business in this country and that here we can get things done just as we say, and I therefore think it is best to concentrate our efforts in an American country rather than an English possibility.

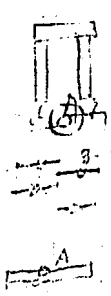
Besides the right thing is the matter that you were working on before you went away and the Stock Ranches, both of which will be ready shortly.

It was unfortunate that Hopkinson should have got ahead of me on the new Conductors. We are however "solid" so far as this country is concerned. My Patent will be out in a few days. I can go away behind Hopkinsons first English dodge for there is no fear of his beating me or interfering if one should at any time be declared

Yours very truly

Edison

PS



10th Inst

Nat. W. Pratt Esq
Purchaser
Babcock & Wilcox Co
30 Courtlandt Street
City

Dear Sir,

Mr. Insull has explained to me the terms you offered at your interview yesterday which I understand to be as follows:-

I am to give you all the orders I have for Boilers & you will allow me a discount of fifty cents per horse power & quote prices to me exactly on the same basis as those given to the Edison Electric Light Co. The terms of payment are to be as follows:-

25% with the order
50% 30 days after shipment
& to notify you the date I want the Boilers shipped
The balance (25%) to be paid sixty days from shipment.

If this is your understanding please write me to that effect. and a line to let me have the necessary Price Lists

Yours truly

Thomas A Edison

28th Apl 8

My Dear Johnson

I received your favor of 11th inst this morning and at once cabled you "Send Sprague". I propose using him in connection with the establishment of the "Small Town Plants."

You ask "How is my other protege panning out?(Benton)". At present I think I must say "N.G." Benton does not seem to know any more about our business now than the first day he came here & so far he has got no orders except one - Post Jervis Small Town Plant. I am afraid he will not pan out as you thought

James Successly

Per Edison.

Other cigents come + study the thing out Exhaustively Capt. get him to set down 2 minutes, He is Entirely unable to present the subject at all

26th April 8

If Munroe gets two thousand (2000) lights averaging each not less than eight hours lighting per day, on or before 26th day of July 1888 I will give him two (2) shares of Edison Electric Light Company Stock. Each extra hour above eight to be credited to Munroe towards making up the 2000 lights but no lamp burning for less than eight hours per day for six days per week to be taken into account - for example if Munroe gets one light burning twenty four hours it is to count as three lamps burning eight hours and pro rata for lamps burning not less than eight hours.

Munroe to have the right to call for the Stock if above results are obtained on or before each at the rate of three hundred (300) dollars per share as he may elect

Thos A Edison

17th May 88

Mr Chas P. Scott
Present

Dear Sir,

In consequence of the rapid increase in Mr Edisons business I have found it necessary to engage a shorthand writer to assist me & I am therefore regretfully compelled to part with your services.

As the Gentleman I have engaged will enter upon his duties on Saturday I think you had better arrange to leave tomorrow (Friday) when I will give you a cheque for £40 being two weeks wages from this date

Yours truly

Saml Insull

18th May 1

Mr W. D. Rich
60 Pf. th Avenue
New York City

Dear Sir

Confirming the verbal arrangement made with you by Mr Insull I beg to state that in consideration of your taking the superintendence of the work (such as I may from time to time indicate to you) in connection with the Construction of Electric Light Central Station Plants which I may contract to put up, I will pay you monthly a salary of one hundred dollars ($100.00) your travelling expenses and will allow you two dollars per day for board and other expenses during such times as you are absent from New York.

It is my intention to present you with a certain sum on each job proceeding your work is performed satisfactorily to myself the amount of said sum however to be settled entirely by me

Yours truly

Thomas A Edison

May 18 ?

To whom it may concern

This will introduce Mr W.D Rich who is my Supt of Construction in connection with the erection of Central Station Electric lighting plants

Thomas A. Edison

26th May 8

Calvin Goddard
care Drexel Harjes
Paris

Private would you return take
presidency Isolated with absolute
control. Complet reparation from
Parent and when answer
Edison

10th Aug 7

C. D. Rahmadeon Esq
Present

Dear Sir,

I find it necessary to have in charge of my mapping Dept an artist who will be able to make maps as rapidly & accurately as I can make them myself, & in a workmanlike manner.

I do not think that you are the man I require and I am sorry to feel compelled to dispense with your services after tomorrow. The Cashier will pay you for the week ending today in lieu of a weeks notice.

Yours truly

Thomas A Edison

27th Aug 8

John C. Tomlinson Esq
82 Park Place

My Dear Sir

Mr Russell informs me this morning that he is going to try to get Dean to your office today to sign the release which we want to get from him.

The release should be made out in such a manner as to release Thomas A. Edison personally and also to release the Batchelor & Thomas A. Edison trading under the name of the Edison Machine Works

Yours very truly

Saml Insull

Aug 31 [illegible]

Edward Johnson

I have tonight cabled to the London Company as follows.

"Accept terms but greatly dissatisfied, see letter" I do this solely for the reason that you and your firm have a large amount of money in this English Co and I do not want to interfere in the slightest degree in a way that might cause you a loss, or a regret for having gone into anything with me. Of course all can get out at any time, but I am tied up for years.

Yours,

Thomas A. Edison.

21th Nov 8

A. A. Cowles Esq
Secretary
Arizona Brass & Copper Co

My Dear Sir

I find your statements against McEachron and the Concentrator to Nov 1st aggregate $20817.71. Of this the following amounts were on account of Pacific Rods & Anchorages

lbs		
6517	Rods @ 26¢	$4008.56 (Pacific Rods)
8198		
446		817.14 (Anchorages)
3098	" "	$4825.70

This leaves $16032.21 to be settled for. This represents 84499 lbs of copper on which the rebate of 2¢ per lb amounts to $1689.98 which leaves the above ($16032.21) to $14342.23. I have arranged

with Mr Edison to give you
three notes dated 15th Nov 83 for
$4847.44 each and falling due 15th
March April & May respectively.

In accepting above from
you that the above figures are
correct. I will send you above
the notes.

The above will close our
accounts except the orders
closed by the Assignments you
hold & some small orders you
were closed you have not, & which
as yet filled.

As to the Machine works account
I am not able whether I shall
be able to settle it before I leave
but I will do my best to do so
& I do not I will leave matters
in such shape that on 1st January
a note of the Isolated Co will be
sent you in settlement to that
date. Yours truly
Saml Insull

/

Letterbook, LB-014

This letterbook covers the period August-December 1882. Most of the correspondence is by Edison. There is also correspondence by Samuel Insull. Most of Edison's letters are in the hand of Insull, acting as Edison's secretary. The correspondence relates primarily to the financing and construction of central stations in the United Kingdom and France. There are also letters about the opening of the Pearl Street central station in New York City, the operations at the Menlo Park Laboratory, and the financial dealings of Edison-affiliated companies. Other correspondence pertains to the manufacture and shipment of lamps and dynamos within the United States. Among the recipients are Charles Batchelor, George H. Bliss, the Edison Electric Light Company, Calvin Goddard, and John F. Randolph. The spine is stamped "Edison Letters No. 7. T.A.E." The book contains 500 numbered pages and an index. Approximately 60 percent of the book has been filmed.

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August 21st 2

Chas L. Dean Esq
104 Cornell Street
Ithaca New York

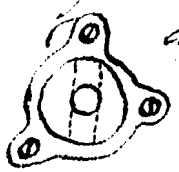
Dear Sir

We have received the following letter from Mr. Batchelor under date Aug 5.

I have sent away now about 18 dynamos I have found it a good thing to have a guide for the belt so I put it on 20 or 25 it is made to go on either side or on top or bottom whichever way the belt comes. In some installations it may not be necessary but in others particularly those exposed to the air the change of atmosphere to very damp slackens up the belt very much and the belt is liable to wobble so much that they are in danger of cutting the armature. In some of the mills I notice that they are not at all particular how they connect up the belt and consequently they rabble very much—

Soldered Ny with which I have made

so as everything came on from front. I have noticed that frequently this machine are put in the engine house and in time the wood dries out and leave the binding posts & everything loose and now have to take stock to fix it I have put my final scale on 20:—



and everything else except the swing lever and which has a nut on top

Armature Coils— I have persuaded a man here to make me these wires a slow hammer in a mould and then come out very nice, as true as if they had been turned. He charges me 75 Cts for 100 Coils which is $.2 c per lb. all I have to do is to bore the hole and fix them on the shaft— they gauge as true as if they had been turned—

Varnish— All my shade are varnished by letting cast on so. and sticking out about ¼ inch the other side is the Shade is Com Paris etc.

I have just got my tools for the socket finished, I have had to make the male female screws

3

to lamps and cooker and they work well—
I have got 50 kilos of wire now for armatures
wound beautifully with six wire together— I
have had a great deal of trouble to get it so
that it is as well insulated as the other we use,
but I think I have got it— I will send you
samples— I believe my boys will wind arma-
tures twice as quick if it is all right.
Love to"

[illegible]

Aug-22-2

00

Col. L. Goddard
Secretary
65 5th Avenue
New York City

22nd Aug 2

L. G. Bly Esq
Sherman
N. J.

Dear Sir

Replying to yours of 18th inst. Jacobus went to Washington on his own account, he had no connection with the Company or authorization to act for us, he was hired by the Chandler people.

Yours truly,

Dear Sir,

Replying to yours of 16th inst I beg to state that the Telephonoscope is not an invention of mine.

Yours truly,

Thos A Edison

10.

22nd Aug 2

The Secretary
Edison Swan United Electric Light Co
6 Lombard Street
London Eng

Dear Sir,

I beg to enclose you herewith letter of recommendation Clarke of Auckland New Zealand for your attention

Yours truly

Robt A Edison

22nd Aug 2

U.S.N. Torpedo Station
Newport
R.I.

Madam,

In reply to yours of 17th I beg to state that the alternating machine of 1/2 H.P. would kill instantly without suffering the small lizard animals. There is not the slightest difficulty in doing it.

The Lieutenant at the Torpedo Station at Newport should be able to give you all the information you desire on this subject

Yours truly

Robt A Edison

11

22nd Aug 2

David Levy.

Referring to
yours of 19th Mr Edison
has not definitely taken
a place in Brooklyn
yet but suppose he will
shortly. When he does
I will let you know.

Call on Bergmann
& Co Wooster St, ask him
if he will want any
new machinery or
going into his new
shop (see Bryant, when
Mason was). Ascertain
the same terms as you
could us. They make
solder & work from
just bought the United
States, people such.

I will call & see
you all next time
I am in town

Yours truly

T. A. Edison

22nd Aug

Cable

Levenstein London

Boxes and connections shipped last week

Telegram

Bergmann & Co
108 Wooster St
New York

Have ordered four thousand corks with cocks for Europe. Why cannot these at present in London be shipped from there thus saving all preventing all difficulty as to overshipment to London Co.

Ernest

13

15.

2nd Engr

Major Eaton,

Yours memo of 18th. Inst. I do not see why there is any need to telegraph Brandon as to this. I have received notice of this suit on the 12th & duly noticed Mr. Acton & am sure it has been attended

Yours &c

Alex Edison

2nd Engr

Dear Gentlemen,

I fail to see why it should be called to my attention. The engineering department has nothing to do with selecting the counsel selected by the C.P.R.

Please send me word if this is all right.

Yours truly,

Alex Edison

23rd Aug 2

Duncan Bowen Esq
Fall River
Mass

Dear Sir

Mr Edmonston
desired me to enclose
the enclosed bond with
the request that you
will furnish Mr Baker
with a few copies of
your decision & deliverable
to do

Yours truly
Lieut Sewell
R.E.

23rd Aug 2

Colonel E. Bull
Burlington
N. J.

Dear Sir,

My chronometer
is at present in Europe
and will not be back for
three months & I am
therefore unable to take
the matter up

Yours truly
Wm Sellers

20.

28th Aug 2

Geo M Hoxie Esq
Western Edison Light Co
51753 Wabash Ave
Chicago.

Dear Sir,

Referring to yours of 28th I will make the terms satisfactory to you if you can get my Electric motor adopted on the Proposed Elevated R.R. at Chicago.

I think you should find McCarthy worked. He will work more out of personal malice & I found on investigation that McCarthy got more orders than all others combined. Yours truly

Thos A Edison

28th Aug 2

Geo M Hoxie Esq
Gen'l Supt.
Western Edison Light Co
51753 Wabash Avenue
Chicago Ill.

Dear Sir

Referring to yours of 27th I have two No 10 Copper wires connected together as one to take the current from the laboratory to my house a distance of 1320 ft. The return will be made up in the same manner

Yours truly

Thos A Edison

21.

22nd Aug 2

Mr W. E. Middleton
Station M.
New York City

Dear Sir

Referring to
yours of 22nd inst. I beg
to state that Mr Edison
does not send up no
"electric light from
"Menlo Park every evening
"about dusk"

Yours truly
Saml Insull
Secy.

22nd Aug 2

Chas L. Clarke Esq
65 Fifth Ave
New York

Dear Sir,

Referring to your
letter of 22nd I will get
the necessary official
order as to Prof. Colombo's
plant in the course
of a few days & will
then be able to send
my order for it.

Yours truly
Thos A Edison

Aug 23 - 2

M. C. Rich Esq
Green Bay
Mich.

Dear Sir

Replying to your favor of the inst. that I wish you to ascertain what I can do with Elec. Motor to an ordinary Steam-Rail Road running through the State of a City. If it is a regular railroad running through the City I cannot apply my Electric Locomotive to it. For being on, two or more tracks on the road at the same time would not make the slightest difference. As to Steam Rail Road I think you could find it the object to practise if you find it.

Yours Truly

Aug 24

S. B. Eaton Esq
Vice President
65 - 5th Avenue N.

Dear Sir

I have a letter from Col. H. Blair asking if we could supply him with a Steam Power to run a few Cars [illegible] night - that is after the Engine attached to the Secretary Pleasure has been stopped - I have replied to the effect that I supposed that shortly we shall be able to supply what he wants

I have [illegible] communicating some experiments lately with the object of getting motive power for such a purpose, and that in case Mr. Blair [illegible] communicate with you on the subject

Yours Truly

Wm A Ed

24th Aug 2

Chas L. Dean Esq
Supt Edison Machine Works
104 Goerck St
New York

Dear Sir,

Will you be so good as to inform me by return if possible the size and amount of wire used by you on the armature and magnets of the Z, L, K & E. machines. I want this information for a tabulated statement I am now preparing to send to Mr Balchen.

I should also like to know the size and amount of wire used by you on the "C" magnets & also the number size & weight of the copper bars and discs used on the "C" machines.

If you can give me all this information it will be a very great convenience

Yours truly
Sam Lewis

Geo Howard has returned home to Providence RI & we have added to his up stairs engine American Electric Co.

22th Aug 2

My Dear Bates,

Referring to your complaint as to Baumann & Co having sent you fixtures ~~&c~~ samples specimens of which you had already received I beg to enclose you herewith B & Cos reply to my enquiry as to the complaint. It falls to my lot to decide as to the filling of these executionary orders & I can seldom expect to do it with satisfaction, In the case in point the first order was for three of each kind but as the cost seemed high to me for mere samples I called to the Lancie Electrique & got it changed to one of each kind. It has, of necessity took some time to fill the order & probably your people have not got the latest styles yet. If however this is put to any loss B & C will allow a reasonable discount if you so desire it & will let us know

Yours truly

Lucull

New York Aug 23d 2

Mr S. Insull
Menlo Park N.J.

Dear Sir

In reply to yours of 22d inst enclosing letter of complaint from Mr Batchelor if you will remember, when the order was received, it being indefinite in wording we made a list of what fixtures we proposed to send which was shown to you. In the absence of any data as to what fixtures they already had we have no doubt included some old fixtures. They were only one of each kind however. Then in several shipments and the styles desired by Mr Batchelor have probaly reached them by this time.

If it will affect any compromise, we are willing to make him whatever allowance he may consider reasonable to keep such fixtures as are the same style as he had received before

Very Respy Yours
Bergman and Co
Klein

24th Aug 2

W. B. Eaton Esq
Second Vice President
Edison Electric Light Co of Europe
65 Fifth Avenue
New York

Dear Sir,

I beg to enclose you herewith a statement of Mr Burns account against the European Co showing a balance due him at this date of £2750.27

I have separated the expenses incurred on account of the Paris Exposition from those incurred in the general business of the European Company.

I would be glad if you would treat the account as finally rendered as withdrawn certain items herein herewith in order to enable you to compare them with those now rendered. In the old account you were debited with the cost of a Dynamo which although made for the Paris Exposition was never sent there. The total cost of this was £594.10.0

I have withdrawn this amount entirely from the account. I have also withdrawn $350 money advanced to Th. Leubel. This we are endeavouring to collect from him personally. I have also taken out of the account the sum of $15 94/100 cost of a pump & engine sent to Mr Baldwin. This was put in the account in error in the first place. I have now rendered it to the Society Industrielle et Commerciale d'Orsay. After amounts to the sum of $250 86 have also been withdrawn.

The principal additions to the account as compared of payments to Dr Noyes on account of his expenses in Paris during the Exposition. I have repeatedly asked him to render a complete account but for some reason or another he has not done so.

If you require any personal explanation of these accounts I shall be happy to give it if you think it necessary. I will attend the Board Meeting at which they are considered for that purpose.

Thos Addison Resident Secretary

Aug 21st 82

S. B. Eaton Esqr
Genl. Manager
Edison Elec Lighting Co
65 - 5th Ave Newyork city

Dear Sir

I beg herewith to enclose you Bill against Edison Elec. Lighting Co, to July 6th 1882, For $5.11/100 and shall be glad of a remittance as early as possible.

Yours truly
Thos A Edison

Aug 21st 82

Popular Science Monthly
5 Bond street
Newyork city

Gents

Please send me 50 copies of September Number of Popular Science Monthly

Yours truly
Thos A Edison

37.

Aug. 24th 2

Albany Sunday Press
Albany N.Y.
Sirs

Enclosed please find
30 cents for which please
send me copies of Sunday Press
of August 20th 1882

Very truly
John F. Rudolph
Menlo Park
N.J.

25th Aug 82

Dear ~

Without you get ~~no castings~~
Castings for Dynamos and have
off the scale before painting on.
Have made & to be furnished
to the Holtzer Co we shall
have trouble. I see the storm
coming & I dont see why he
cant have a good facing
to his sand & give us a good
Casting. please attend to this
at once or trouble will arise
with them ~ Edison

Bailey—

I warned you not to
talk about a "legal aid"
"legal rights" etc to Eaton
& will tell you about it when
I see you—

&

25th Aug 82

+

Menlo Park 26th Aug 2

M. F. Moore Esq
Genl Manager

Dear Sir,

I notice that one
of our Duplicating Process
for Deposit Book Reports.
Why dont you have your
boys use the Electric Pen.
There is one at 65 Fifth
Av. Have it fixed up and
one of your clerks learn
to run it & you will then
be able to get more satisfactory
copies of anything you
may want

Yours truly
Thos A Edison

Menlo Park 26th Aug 78

Chas L Clarke Esq

Dear Sir,

Defect Book Report. Aug 17th
Spring on E. Dynamo
Did not mean caught
at and run down the end
of a spring on the end of
E. Dynamo shaft. I think he
did. Have no item about it
did. Have no item about it

Yours truly

Thos A Edison.

Menlo Park N.J.
28th Aug 2

Chas L. Dean Esq

Dear Sir,

I see by the Depot Book that the South American packing is complained of. Perhaps you might do it a little stronger for them as they have no facilities whatever for handling our heavy packages.

I notice also that they open to the E. Dynamo Branch. Please see what you can do towards getting a satisfactory one as bad runners injure the reputation of the machine quicker more than anything else.

Yours truly

Thos A Edison

Menlo Park N J 26th Aug 2

Major S. B. Eaton,

Yours memo opposite.

Gas lamps in London I do not think 3225 is correct. Clarke can get you the exact number from Engineer his gas works. Perhaps "Engineer" refers to the City of London which is a very different thing to what we ordinarily call London. The former is but the old part of London within the old city Bounds — Sprague can tell you about this.

Chandeliers. I understand that where gas chandeliers are used down town the Chandelier is entirely insulated from the gas pipes.

+

Sept 2/

Baltimore, I think our people there could own the Gas and establish a monopoly within a few years and if they charged $1.25. Could any chaps there & I would make no concession to them except perhaps in accepting deferred profits.

Acid eating wires. Taped wires ought to fix this trouble all right.

Ledger Plant. Bad Switches. All the switches of the class referred to by you ought to be withdrawn I had the same thing occur in my house. Please talk to Johnson about this. I think it important & so does he that they should be withdrawn & proper ones substituted

There are not many and the expense would be small we could on Friday Night the other night and found one bad F.K.J. & O. Baugmann to change it at his expense

Memo of Aug 22nd

Germania Mills. I do not believe in having 3 Siemens magnetic Dealers in. They might keep a little detector that Clarke could devise connected to one main, and the earth and thus at all times see the leakage. The line may be a thousand miles making it impossible to have an earth connection.

Freeman. I would not think of buying him out. I would not give one cent for his rights. We cannot and dare not go on with the Interference.

Thos A Edison

46.

Aug. 26- 2

Edwin Bellis
Gen Sec. Mex.
Arlington W. Va.

Dear Sir

Referring to yours of Aug. 4. which has just reached me at above address from Derry Lodge, I would request you to send me samples of the platinum ore by mail to Menlo Park N.J. and mark on package what ore it is from, so I may identify it.

Yours Truly
T. A. Edison
MD

Aug 26- 2

E. L. Clarke Esq
65- 5 Avenue
New York City

Dear Sir

Referring to your esteemed favor of 23d inst.

I approve of your proposition as to the coordination of the Meter, As to the Arrington engine- have the company rush the South American engine but we must have our model engine and two others, we can let the balance of our order wait- a couple weeks

Yours Truly
T. A. Edison
MD

Aug 26 - 2

C. E. Spiers Esq
23 Murray Street
New York City

Dear Sir

In reply to your postal of yesterday. Ichi present adress is care Société Industrielle et Commerciale Edison - 5 Rue du Parc - Ivry-sur-Seine, France

Yours truly
T. A. Edison
per

Aug 26 - 2

K. A. Carter Esq
315 Henry Street
New York City

Dear Sir

Referring to yours of 22nd inst. I can be seen at 255 Pearl Street any day from 12 till two o'clock

Yours truly
T. A. Edison
per

48.

Aug-26- 2

C. M. Cordell Esq
Graphic Co
N. Y. City

Dear Sir

Refering to your favor of yesterdays date. I will be at the Electric Light Station 255 Pearl Street from twelve until five P.M. every day. Would not however like to exhibit the apparatus until I got the requisite permission from the Exchange

Yours Truly
T. A. Edison
WW—

Aug 28- 2

J. N. Dail
97- 6th Avenue
N. Y. City

Dear Sir

Please pack the 3 engine thoroughly and strong, and notify Haywood Perry & Granklyn 54 Wall St requesting them to ship to Edison Electric Light Co. Limited 57 Holborn Viaduct London England.

Yours Truly
Thos A Edison

53

29th Aug 2

Aug 31st 2

Calvin Goddard Esq
Secretary
Edison Co for Isolating
New York City

Reside
London
Pay Hanford my
account about Two fifty Pounds
on usual Edison Bills.

Booked

Dear Sir,

I enclose you herewith Isolated Clock as follows.

P. A Edison	455 Lbs
Chas Batchelor	78
R. Batchelor	4
S. Insull	2
	539

This is the exact Tare for the machine books. Please endorse on the Certificates when calls have been paid & return same to me

Yours truly
Sam'l Insull

Aug 31st 82

Professor Colombo
Fifth Avenue Hotel
Longest city

Dear Sir

As requested I beg to hand you below the prices of dynamos we are now building.

Number Lights	complete	Armature	Cables
40	1300	$10.500.	$4.363	$2.25
16	250	1350	405	1.25
8	150	900	275	1.25
4	60	550	150	40
2	15	175	40	25

The above prices are net. No discount.
The prices named are those most recently given to the Compagnie Continental Edison of Paris

Yours truly
Thos A Edison

Aug 31 04 2

Geo. H. Bliss Esq
Western Edison Light Co
93 Wabash Ave
Chicago Ill

My Dear Sir

The reason the European Telephone Stock has not been delivered to Western Electric Mfg Co is that I have been awaiting the arrival in this county of Mr Jas F. Bailey as he is familiar with the European Telephone Co Business. He has promised to give me an afternoon or day next week to go into this Co's affairs. immediately after I shall be able to get the Stock transfered. I am sorry there has been so much delay about this matter but it is owing to the fact that the business took place before I came to Mr Edison and my knowledge of it is consiquently slight and I am compelled to wait till I can get some one to give me the necessary information

Yours Very truly
Sam'l Insull

Aug 31st 2

James Kitchen Esq
70 Cedar Stuck
Newyork City

Dear Sir

I enclose you herewith letter received from Mr Bidermann I was quite unable to call on you at the time arranged to see the correspondence in this matter shall hope to do so however to morrow or saturday

Yours truly
Thos. A. Edison
R.

Aug 31st 2

Isidore Fischer Esq.
c/o M. Fisher
110 Division Stuck
Newyork

Dear Sir

Referring to your letter applying for a position you had better apply to Mr Chas L. Clarke Engineering Dept. Edison Electric Light Co. 65 Fifth Ave New York

Very truly
Thos A Edison
R.

Aug 31st 2

Pardon Arnington Esq
Treasurer
Arnington Print Works
Providence R.I.

Dear Sir

Yours of 25th inst come duly to hand. As I telegraphed you then about it is impossible for Mr Edison to go to Providence as he is so very busy. will however go down if convenient to have a conference early next week.
Mr Jos F Bailey one of the Directors of our Light Co of Paris will accompany me with the object of endeavoring to close up the whole business.
If I bring my Mother down with me shall I go to a Hotel or your House

Yours truly

Saml Insull

Aug 2nd 2

J. F. Bailey Esq
Administrateur Delegué
Compagnie Continentale Edison of Paris
65 Fifth Ave New York City

Dear Sir

I have duly received your favors of 26th inst and note what you say as to the execution of orders. I would only say you the necessity for giving us immediate official orders as to the Milan Plant as expenses are being incurred and work progressing ~~simply~~ on a verbal understanding. I should also like to receive your order for the four Central Station Dynamos and would like you to arrange for me to receive immediate advances on same as the work on them is already far on the way towards completion.

As to the High Candle power Lamps I am fully alive to the necessity of pushing these forward and hope to turn some out in about four or six weeks.

Very truly Yours.

Thos A Edison

Sept 2

Sept 1st 2

Cable

M. F. Moore General Manager
65 Fifth Avenue
New York

Ekenside
Paris

Rec cable concerning
Eugenia Six days

Roselle man came down
today to see Claudius
I put him off he saying
he would come tomorrow
I do not want him to
come. Have written
Eaton

Booked

+

74.

1st Sept 2

C. Goddard Esq
Secretary
65 Fifth Ave
New York

Dear Sir

Yours of 31st to hand. I think that at some future date we might introduce the village plant system in Revelle Parkway and with that view suggested to Mr Pope some time back that the Council should not make a hard & fast contract with the Gas Co. of course we can do nothing till the Revelle experiment is completed. Anyway I

I would not propose to license the municipal authorities but could of course get up a small Company.

You had better consult Mr Pope further upon the matter.

Yours truly

Thomas Edison

1st Sept 2

E. L. Metcalf Esq
North American Review
New York City

Dear Sir,

Your favor of 29th ult came duly to hand. I do not think my texts will be completed to enable me to let you have an article by the date you name. It is however possible that it may be ready for the Review coming out next after that date.

Yours very truly

1st Sept

Messrs Hayward Jenny & Francke
54 Wall St
New York City

Dear Sir,

I enclose you herewith Power of attorney from Mr Edison to yourselves authorizing you to act as Custom House Agent for him

Yours truly

96.

1st Sept 2

M. P. Moore Esq
General Manager
Edison Co for Isolated
65 Fifth Avenue
New York

Dear Sir,

E. Dynamo Spring

Referring to enclosed
will you be good enough
to inform me whether
it is the habit of your
subordinates to enter
in the Defect Books
complaints for which
you consider there is
no ground & if so whether
steps should not be
taken to prevent a
recurrence of such
things

1st Sept

Messrs A. N. Meadowcroft
65 Fifth Avenue
New York

Dear Sirs,

I beg to return
you herewith Mayor
Wolbers report enclosed
under cover of your
favour to Mr Edison of
29th ultt.

The memorandum
as to E. Dynamo springs
has been sent to Mr Moore
through whom it will
first go on way back to
Mayor Wolbers Office

Yours truly

Thos Commell
Secy

collecting of them was a great expense to me & think the Co should agree to it

Jas F. Bailey Esq
65 Fifth Avenue
New York City

Dear Sir,

Referring to your favor of 29th ult. as the exhibits to go to Munich will you please write me that the Company or Continental will bear the expense of replacing any endorsements lost & repairing those damaged when the exhibits are returned here.

When the exhibits were sent to London I was obliged to have them replaced and as the

1st Sept

M. F. Morse Esq
Genl Manager
Edison Co for Isolated
65 5th Ave
N. Y. City

Dear Sir,

The man who will have charge of the Village plant at Roselle came here today with an introduction from you to Mr Claudius. After consulting with Mr Edison I told the gentleman that Mr Claudius would not be here today and he said he would call tomorrow. I at once telegraphed you as to prevent his coming tomorrow.

Mr Claudius' work

here is kept secret even the employees of the Laboratory not being allowed in the room where it is conducted without a permit from Mr Upton. Furthermore your man would gain nothing of advantage to him in his work at Roselle as Claudius works out the data for the system & that is all that is required - how it is got at Mr Edisons Factory as far as possible should know.

Please enclose your Roselle man not to come here until Mr Claudius arrives

1st Copy 2

M. F. Moore Esq
General Manager
Edison Co for Isolated Lighting
65 Fifth Avenue
New York

Dear Sir,

Referring to yours
of 21st inst Mr Clarke
can supply you with
full data as to the
transmission of power

Yours truly,

Thos A Edison

at any time you wish
anyone else to come
here for the purpose
kindly communicate with
Mr Edison before sending
them

Yours truly,

Thos A Edison

82.

1st Sept 2

Mr James. E. Browne
Sec'y of American District Tele Co
240 Broadway
New York City

Dear Sir,

Referring to yours of 30th inst please call at Edison Central Station 255 & 257 Pearl Street any day between twelve and five o'clock. I think I can put you into a good thing.

Yours truly

Thos A Edison

1st Sept 2

Chas L. Dean Esq
Edison Machine Works
104 Goerck St
New York

My Dear Sir

I enclose you herewith letter we have received from Mr Clarke. Mr Edison wants you to go down to the Central Station and see the Dash pot arrangement they have there and then have duplicates made for the four Porter Engines ~~also~~ lately sent to Europe.

Yours truly

Chas L. Clarke

X

1st Sept 2

Mr E. B. Benjamin
6 Barclay Street
New York City

Dear Sir,

Referring to your favour of 29th ult. I asked our Lamp Company for a quotation for Phosphoric Anhydride and they replied "We have enough trouble in "making our own without "going into the business "manufacturing the wretched "compound for outside "parties." So I am sorry that it will be impossible for me to [illegible]

Yours truly
[illegible]

1st Sept 2

C. Goddard Esq
Secretary
65 Fifth Ave
New York

Dear Sir

Referring to your [illegible] of 30th ult I do not think that we shall be able to supply a motor for a sound weeks to come but would suggest that Steward [illegible] a 15 light machine as a motor. It gives about two horse power

Yours truly
[illegible]

1st Sept 2

Jas. P. Bailey Esq
65 Fifth Avenue
New York.

Dear Sir,

I duly received your favor of 30th inst.

I cannot give you a date as to when I can send some automatic Regulators to Europe. I have men working on various forms of regulators all the time and as soon as I can decide on the form of regulator to be used I will send some

I enclose you herewith letter from Mr Kinnear dated 31st Aug. I think it is highly important that the official orders for the Italian Navy should be given at once. As soon as it is given Prof Colombo should see Mr Kinnear as to exact form of hours & he will require.

Yours truly

Thos A Edison

Chicago Sept 2

Geo N Bowers Esq
Genl Manager
Western Edison Light Co
57 & 59 Wabash Avenue
Chicago Ill

Dear Sir,

Yours favor of 29th came duly to hand.

I shall be able to give you a Storage Battery much better than I could any one. If you desire to make a success of the light do not use a storage battery more than you can help as although the battery is a beautiful product of science, it is commercially a most dismal failure.

As to the arc light I never must have had entirely or you must have misunderstood him. He has nothing but an arc light which will burn on a "B" circuit or on an "A" circuit with two in series. Each lamp requires one horse power. It will depreciate soon be watch but we will use hundred candlepower incandescent lamps which are far

more desirable and reliable terms being charged

∴ As to your payment of $100 per day of you have to pay it, it will not be because you cannot get Dynamos & Lamps. I know terms well and would advise you to start in going for them right away and keep on writing them steadily till you get the Engine. I am trying to arrange so that we can have a large stock of engines on hand as this seems our weak point.

Yours truly
W. V. Slocum

88.

Sept 21 1

Bank of Rutherford
in Rhinelander
Rhinelander Wis

Gents

Enclosed please find check for $100.00 in payment of
check for $100.00 drawn on the Bank of Rutherford
in favor of Rhinelander Canning Co.

Yours truly

Rhinelander Canning Co

Sept 21

Rhinelander Canning Co
Rhinelander
Wis

Dear Sirs,

We have today received check for $100.00 drawn on the Bank of Rutherford in favor of Rhinelander Canning Co. This is in payment of the Rutherford account in full. Please give us credit for same.

Yours truly

FROM

THOMAS A. EDISON,
Menlo Park
~~No. 65 FIFTH AVENUE~~
New York, Sept 1st 1882

TO

Chas Batchelor Esq
5 Rue du Parc
Ivry sur Seine
France

Dear Sir

I beg to confirm cable as follows
To you Sept 1st We will cable concerning
Engine six days
The engine we are proposing
to use is the Armington Sims. We
have not got one ourselves yet
but have such a strong objection
to using Boilers that although
we have the Central station
Dynamos finished at present we
prefer to leave them waiting
till we can get A.C.P. Engines. Upton
will write you fully as to this
by same mail as he has had the
A.C.P. matter in hand & can go into
it in detail

Yours truly
Thos A Edison

Batch,
Have just commenced a long
"Puzzle" to you but find I can't
get through it time for this mail so
let me have all new mail to-day - Insull

FROM

THOMAS A. EDISON,
Orenlo Park
~~65 FIFTH AVENUE~~
~~New York~~, Sept. 1st 1882

TO

Theo. Turettini
10 Rue Petitot
Geneva Switzerland

Dear Sir

I beg to confirm cables as follows
From you Aug 30th Send 500 lamps 8 candles
200 - 16 candles 100 - 32 candles paid Selin

From you Sept 1st Concluded arangements
build two permanent Railways from
Geneva five miles each send all working
drawings in detail immediately
The lamps have been ordered
, and will be sent forward as early
as possible.
as to the Railroad I will
write you in the course of a
mail or so.

Yours truly

Thos A Edison

X

FROM

THOMAS A EDISON.
Menlo Park
~~No. 65 FIFTH AVENUE~~
New York, Sept 1st 1882

TO

T. J. Hanford Esq.
412 South Amption Building
London E.C.
Eng

Dear Sir

I beg to confirm cable as follow
Do you Aug 31st Command Sir -
Lombard authorized Pay you.
I presume that upon the receipt
of this you will have applied
to Col Geo E. Gouraud 6 Lombard
Street London E.C. for payment
of your account. I am sorry that
that should have had to wait
so long. It is partly owing to
the fact the account is payable
by one of my associates under
contract with me & partly to the
fact of my lengthened absence from
here. There seemed a prospect of
a still further delay so I thought
it best to pay you from my own
funds

Yours truly
Thos A Edison

No. 1

Menlo Park N.J. 4th Sept 2

Sept 4th 2

J. Kearney Rice Esq
8 Masonic Hall
New Brunswick
N.J.

Edison Machine Works
109 Beach Street
New York City

Dear Sir

Dear Sir

Please send as soon as possible 6 Copper enough one Single shroud wire to wind one Loco Armature with the necessary Insulation and parchment Paper

Yours truly
T. A. Edison

Referring to your favor of 1st inst I will have my witnesses ready by 12th Sept.

My Secretary, Mr Insull, will call on you at the end of the week the matter.

Yours truly
Thos A Edison

Mr J. A. Carlen
Rahway
Orange Co.
Mass

Dear Sir,

Referring to your favor of 10th inst. Mr Edison has directed me to inform you that his time and capital are so fully employed in the development of his own inventions that he finds it quite impossible to take up anyone elses

Yours truly
Samuel Insull
Sec'y

Mr C. Burnham
Edison Electric Light Co
65 Fifth Ave
New York.

Dear Sir,

Referring to your favor of 2nd inst. I do not exactly what the drawing Mr Holden handed me were but I fancy they are "C" Dynamo drawings which it was afterwards decided not to send them in consequence of subsequent alteration in construction of "C" machine.

Any way please send at once to Edison Electric Light Co of Boston Mass and London & C. by mail full working drawings of "C" machines

Yours truly
Samuel Insull

Menlo Park N. J. Sept

Edison Spanish Colonial
Light Co
P.O. Box 2596
New York

Dear Sir

Yours of 2nd inst
came duly to hand.

I give you below
the prices at which
Dynamos are sold by
the Edison Co. to their
customers in this country

6	15	"A" lights	$500
	30	"B" "	520
2	60	"A" "	1200
	120	B "	1920
4	150	A "	2000
	300	B "	2300
1	250	A "	3000
	500	B "	3500

The "C" Dynamos have
not been sold by the
Edison Co up to the pres

The Edison Electric
Light Co have sold some
to the Edison Electric Illuminating Co)
for Central Station purposes
at cost this being provided
for in their Agreement.

Yours truly,

Edison

12th September 2

The Secretary
Edison Electric Light Co
74 Coleman Street
London Eng

Dear Sir,

I duly received your favour of 24th August.

I would point out to you that my estimate for a 80 Light Plant was made to be compared with your estimate of net cost of same and I in no way fell into the error of estimating the net cost of a plant to the Company not even in London, but in New York in the care of the Edison Co. with their gross price including profit charged by the Edison Co.

My estimate was made on the basis of packing and shipping expenses that this will being paid by me - You being charged with the freight and insurance from

2.

which then is a margin in the case of the Dynamo of £2.16.8. My estimate is exactly one of cost to you in London as compared with your estimate of cost to you there. From a paragraph in one of your letters to Johnson as to the explanation of this estimate I gain the impression that it is your idea that the estimate was not carefully prepared, which is certainly not justified as it was based on my figures worked out with the object of seeing whether I could not deliver Dynamos F.O.B. in Port of London in case of large orders. It is my impression after reading your letter and again looking over my estimate ~~must have~~ that your examination of the latter could not have been very great or else you would

X

have discovered that I did compare "like with like" viz the net cost of an 80 Light Edison Plant delivered in London

I did not mean to give you the impression that we can dispense with Electrolicus - which I allowed for in my estimate. What I meant you to understand was that however necessary we might the the Electrolicus manufactured here it would be better policy to use those made in England in order to cheapen our plant. To sum up my figures I would state that where so poor a machine as the Burgon is used it is possible for you to put in one of your plants at cost at a loss of about £2.0.0 where no engine and boiler is required, and where your customer requires the latter articles you can certainly make

4

a small profit in consequence of the economy of my lamps and Dynamos as compared with those of my opponents so far as power is concerned. If a better machine than the Burgon is used (the Siemens) you can make a good profit of at least 25 %. I therefore consider your last complaints in your letters to Mr Johnson as to the enormous cost of your machinery not only far fetched but scarcely in accordance with the facts of the case. We have had to meet here with the same competition and in the course of about eight months we have not only killed it but have earned profits amounting to a sum equal to our own cash capital plus 7 %. Mr Clerk's remarks to the effect that we have had no such competition as yourself are

5

exactly the opposite to the facts of the case as we have had competition of the most cruel character, which we have manage to kill and have made money in doing so and I am extremely disappointed at your complaints that you cannot follow in our footsteps.

Referring to your letter of 18th August to Mr Upton I wanted remark that the ten candle lamps were but samples and were made by hand and were necessarily very expensive. In such cases it is our practice to charge our customers with one half and bear the balance of the cost ourselves. Of course when we make these lamps as regular articles of manufacture the cost will be very considerably reduced and we are now preparing tools

6/

with the view to achieving this object. If however you prefer it I will in the future refrain from sending you any new varieties of lamp wicks they can be turned out at the bottom price which in every instance will be 10/ per gross after the first samples have been produced by hand. It is for you to decide whether you want this course pursued it being quite immaterial to me as I am glad to say my office companions both at home and abroad are only too anxious to get samples of anything new I may turn out, (with a view to improving our system) irrespective of immediate cost trusting in my ability and desire to cheapen the manufacture later on.

From your letter to Mr Upton I gather that it is your opinion that I am compelled to supply your

7/

company with lamps of whatever character and candle power as to 40 cents for "General Distribution" and 50 cents for "Isolated". If I am right in my conjecture I must say that I entirely dispute your assumption as I fail to see that the contract gives you any such right. At the time the contract was made the only lamps of regular manufacture were of sixteen and eight candle power for "General Distribution" and "Isolated" purposes. I am now working on a 32,50,1000 candle power lamps and it would be absurd to expect that these can be made at the same price such as it would be absurd for me to undertake to supply them at the same price as the 8 & 16 Candle lamps. I am also working on a higher resistance lamps with the object of reducing the investment in

8

conductors. Their camp may prove expensive to manufacture and yet economical for your company to purchase at say three or four times the present cost of our regular lamps. It would be as impolitic for you as for to me to have such an one sided arrangement as to place of lamps as you assume such as it could not but debar me from further investigation on the fear that I might devise a lamp expensive to manufacture but yet economical to use.

I must protest against the spirit which seems to underlie your letter to Mr Upton and more especially your letters to Mr Otheus. My object has always been to endeavor to cheapen the manufacture, increase the variety, and add to the completeness of everything in connection with my system and I must confess

9

to a feeling of disappointment on finding, on the first time, that there accredited with my interference in Electric Lighting in England do not seem (judging from your letter) to encourage my efforts in this direction.

As to the extra 2. armatures sent you I would point out to you that you accepted the 2 (two light) machines sent you on trial & on both machines and it was but natural that I should presume that you would require extra armatures for the same as I have not yet found that an armature will last for ever and that it is impossible to have an accident with them. It is however a matter of little moment to me whether you keep the armatures or not the question involved being not whether you or I would be called on to bear them but whether my

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credit with my Bankers should
be impaired. Considering the nature
of my authority from you & drawn
it would have been but mere courtesy
courtesy for you
to have met the draft and
called me to remburse you the
disputed amount, in the first case
instead of leaving it unpaid for
several days. I do not know what
may be the business usage under
such circumstances in England
but in this country this course
is invariably pursued where relations
such as those between us exist.
I have already paid out an amount
about equal to the sum in dispute
(for which account is forwarded by
this mail) and in consequence
of your orders not to draw on
your company again till I hear
from you by letter I shall be
compelled to pay for goods out of
from my personal funds as they

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various establishments have my personal orders for the goods shipped and to be shipped to you.

I shall be glad to know if it is the intention of you to again refuse to honor my drafts on them in the manner pursued in this case as if so I shall be obliged to request that my bills against you be paid in New York in cash as I cannot afford to allow any doubt as to whether my drafts on you will be honored as I sell them to my Bankers through whom I am constantly drawing on all my Foreign correspondents, now can I expect my Bankers to negotiate them for me if such a doubt does exist.

From your letters mainly & Mr Johnson I gain the impression that you imagine that it is my desire to force on you the produce of our factories here. Such a

disabuse your mind of any such
idea also would add that I
shall be equally as pleased as
yourself when your Company
can get their Lighting apparatus
manufactured in England equally
as good and cheaper than one
can obtain from here.

Yours truly

Thomas A. Edison

18th September 2.

Loeck Electrique Edison
33 Avenue de l'Opera
Paris France

Dear Sirs,

I duly received yours of 24th August

Yours are somewhat mistaken in your ideas as to Mr Dyer's debit in connection with the cases sent you. No preparer than from notes & rough sketches made by myself and his charges are to be arranged as to be proportionately taken by the various companies taking out my patents in different countries. The preparation of these cases often involves a great deal of study & research and I cannot decide how he can reduce his charge to you. The American Company pays the same as yourself and the English Company double the amount as Mr Dyer has a great deal more

attention. My Patent affairs have often been a cause of great care to me in the past in consequence of of the case pertaining on them having been of a very indifferent character. Since Mr Dyer has had charge of my cases the causes have been of a very different character and the charges made by him are very reasonable as compared with those of other Patent Attorneys I would add that whenever you may require assistance of any kind Mr Dyer will always be most willing to give it to you.

Trusting this explanation will prove satisfactory

I remain, Dear Sirs
Yours very truly,

Thos A Edison

13th September 2

Col Geo. G. Farnum
6 Lombard Street
London E.C. England

My Dear Col,

Your favor of 22nd August came duly to hand.

I think that power can be transmitted economically the distance you state for the purpose of lighting Geneva. As to what would be the cost of the experiment I think more than £2000 would be required for the purpose. I am sorry however that I am unable to do anything in the matter myself as I have disposed of all my electric light & power rights for Switzerland to Mons Turrettini 10 Rue Petitot Geneva and for France to the Compagnie Continental Edison 33 Avenue de l'Opera. At Geneva you had better communicate with Mr Turrettini whom I know my

impression has a Concession
for Lighting Fencing &c to any
City in France that would perhaps
be as well for you write to
Batchelor whose address is Societe
Industle et Comle Edison 6 Rue des
Deux Ponts Puteaux Seine France)

Yours truly
Thos A Edison.

~~Menlo Park~~ Sept 15. 82

Mr. Charles Batchelor
Ivry-sur-Seine
France

Dear Sir

For the convenience of closing up the accounts of the New York Light Co. in the matter of the Electrical Exposition at Paris last year will you please to state to me the extent to which Dr Otto A. Mora cooperated with you during the Exposition and afterwards up to say the date of March 1882 and the nature of the services rendered by him.

A similar enquiry has been addressed to Messrs Charles Bailey regarding the duties of Dr Mora in the Electric Department of the Exposition.

Yours Very Truly

Thos A Edison

Sept. 13 - 2

Menlo Park

Messrs Preston & Bailey,
30 Avenue de l'Opera
Paris France

Gentlemen

In the commencing of closing up the accounts of the New York Light Co. in the matter of the Electrical Exposition at Paris last year will you please to state to me the extent to which Dr Otto A. Moses cooperated with you during the Exposition and afterwards up to say the 1st of March 1882 and the nature of the services rendered by him.

A similar enquiry has been addressed to Mr. Batchelor regarding the strictly technical services of Dr Moses with which I assume he is better acquainted than you are.

Yours truly

Thos A Edison

E. P. Powell Esq
6 Lombard St
London

18th September 2

My Dear Powers,

Yours of 31st August & Johnson was handed to me by him to show to Edison who has requested me to reply to it.

England & the Continent of Europe have been disposed of so they are out of the question.

I think something can be done as to Buenos Ayres & Montevideo although Edison himself does not at present control them. If you will let me know on what basis you think you could negotiate them, (allowing for us to make something out of it) & I will see what I can do with the people who at present control it.

I hope you have made money in S. A. & I can assure you I have made money here & have every prospect of making more

Yours Truly
Thos A Edison

12th September 2

Société Electrique Edison
33 Avenue de l'Opera
Paris France

Dear Sirs,

I have your favor of 30th August.

The reason I did not reply to your cable of 1st August was that I could not at the time state with any certainty when I could ship you more big dynamos. The reason for this was entirely beyond my control. I had made contract for the delivery to me of Engines which form part of these machines & the Builders of them do not fulfil their contract as to time of delivery. I feel therefore that it would be impossible for me to name to you the date on which I could ship your machines. I have now made an arrangement by which I expect facter deliveries of Engines and shall

later on proceed to the manufacture of them in my own shop. The price we now quote is £10500 F.O.B. New York. The engines attached to these machines will be in the future of considerably greater power than those already shipped which will enable you to get a greater number of lights out of the machine. This will form a considerable reduction in the cost of same, the exact amount I will let you know in the course of a few days when I have tested the first engine. The boxing handling & carting of this machine to the dock costs about £200. You will notice in the bills sent you for those shipped to Genoa & Antwerp that I have not charged you with this although I could have done so under your order for them. I am hoping to be able to be able eventually to deliver

these machines in Foreign Ports free of all charges except Custom Duties but my profit now is so very small that I hardly think I shall be able to do these until the demand for these big machines is great enough to warrant me in making a heavy investment in special tools for cheapening manufacture

As to the the Conductors for Munich & Brunn I would point out to you that although Mr Batchelor did telegraph the order in the first place it was entirely altered about two or three weeks later & most of the material - especially the Copper Conductors — had to be put on one side and fresh material ordered. I think instead of your Company complaining at the long delay in shipping (entirely due to the original order being altered)

Pathe Co have cause to complain as in consequence of your order being changed that have a considerable amount of indec. on hand which they will have to hold till such time as they can get a customer for it.

Yours truly

Thos A Edison

Ibg.

Menlo Park Sept 13 - 2

Sept 13 -

L. W. Serrell Esq
140 Nassau St
New York City

Dear Sir

Refering to yours of 11th inst I have had all my letters for the year 1878 carefully examined but could find no letter from Dranbaugh on any subject.

I will request the Phonograph Co to make search amongst their papers for the letter in question and will inform you of the result

Yours Truly

Thos A Edison

Lt. C. Goddard
Secy. 65 & 5 Arcade
New York

Dear Sir

Enclosed herewith please find a letter of L. W. Serrell to yourself under date Sept 9. 82 which is returned to you for reply. Also letters of H. L. Dodge of Sept. 9. and E. C. Wilson of Sept 11. enquiring for Electric Lamps which Mr Edison suggests they be furnished with at one dollar each. Also letter of R. N. Dyer to yourself under date Sept 9. with copy of letter No. 261.157 and 261.159. In relation to the Herbert patent Mr. Edison says it contains nothing of value to the Light Co

Yours Truly

Saml Insull
Sec'y

Sept. 15 - 2

Calla

Librairie Bain

Filon, glass
eye spare machine go Canada
Expériences

Sept. 15 - 2

Charles Batchelor Esq
Prop-in-Scine
France

Dear Sir

Dynamo - Breakage of
wire binding round armature Edison
found that the wire used for binding the
armature round platinum bars at the
point when the ends of same are soldered
He discovered that the cause of the trouble is
the extreme strength of the field which
attracted the wire binding towards it, the
field) with such force as to often cause it
to snap. In the case of machine already
built this difficulty is overcome by increasing
armature at the wire binding, (between it
and the parchment cover here) two inches
wire and then binding up the end of the
binding wire about ½ inch and then
securely soldering the whole together
I give you below a sketch of how it is done

K

Ad 2.

In the case of binding your Annuaires Dean use a piece of brass about an inch wide over which he winds the binding wire and then when the binding is finished he bends on the two ends of the brass until they meet and then securely draws the whole making a loop of the end of the binding wire.

Sometime back you wrote for data as to small machines. It has taken some time to collect, but I hope the enclosed will not be too late for your purpose

Yours truly

Saml Lucas

Size	Length	Face	Height	Weight	Pulley Diameter	Revolutions per Minute	Horsepower	Resistance Available	Resistance Required	
E.	15"	25" × 17½	2'11"	700 lbs	3"	5"	2200	3	.36	90	E.
	30"	"	"	"	"	"	"	"	.09	25	
F.	60"	45" × 39"	6'6"	3000	6"	10"	1200	10	....	40	F.
	120"	"	"	"	"	"	"	"	.087	10	
L.	150"	60" × 39"	6'6"		9"	14"	900	19	.369	20	L.
	300"	"	"	"	"	"	"	"			
M.	250"	70" × 39"	6'6"	8250	9"	14"	900	85	.3825	18	M.
	500"	"	"	"	"	"	"	"			
C.	1200"	168" × 105"		60800				160	.304	220	C.
	2400"	"	"							400.	

Wire

Armature takes 6½ lbs .042 wire
Magnets take 89½ " .020 wire for the two coils
Armature takes 28 lbs .042 wire
Magnets take 65 lbs #17 B.W.G. for each coil or 180 lbs to the machine
Armature takes 60 lbs .060" wire
Magnets take 60 lbs #17 B.W.G. wire per each coil or 260 lbs to each machine
Armature takes 80 lbs .060" wire
Magnets take 60 lbs #17 B.W.G. wire per each coil or 390 lbs to each machine

Iron in machine { Magnets takes 119½ lbs ½ iron to each coil
Cast iron discs to block 275 square 98 to each machine
Armature 95 bars 07" long ⊔ .690 to each machine
8 " 5⅞ " " "

There is error in the last written of connecting the Magnets

1st Letter 2)

Mr Cerro (2. Mines
Rec'd York Cabo

Dear Sir

In reply to your letter of the 4th inst. I have to say that upon application as to the capacity in which you went to Paris, you went as Mr Barlow's secretary simply and your salary as such was as I was informed tendered to you by him but for some reason was refused by you. You never had any communication from me to dispose of any papers and I never heard of any negotiations for their sale by you or of your taking part in any negotiations for their sale. If you did it was gratuitous on your part.

You remained in Europe after the close of the Expedition entirely at your own option and I was informed at the time was for the purpose of obtaining after your accounts finally adjusted whatever balance might be found due you in connection with the French Company whose formation was then under

consideration

any reasonable claim to compensation and to reimbursement of your expenses during the period of the Exhibition which is the only part of your stay in Europe which I can admit was, in my opinion more than valued by the amount of £2500 in cash and fifty shares in European Light stock which I have given you

Under these circumstances I could decline to bring before the Directors of the European Light Co your claim to 2½ % of the proceeds of the sale of their patents

James Curley

159.

20th Sept 2

Sept 20- 2

M. P. Moore Esq
65 Fifth Ave
N Y.

Dear Sir

Detroit Brook 16th Sept

Mr Vail complains that there are no vouchers with the Dynamos.

It looks to me that he is making a complaint against himself. Why does not he get up vouchers for the purpose

Yours truly

Thos A Edison

Edison Machine Works
104 Lorraine Street
N.Y. City

Gentlemen

We have received advice from the Societe Electrique that in shipment of goods by you to Naples in which 48 brushes were billed, there [illegible] but 43 on unpacking the goods showing discrepancy of 5 brushes for which they ask credit. Please send bill of credit

Yours Truly

Sam Insull

Sept. 20 - 2

Messrs. Deacon & Co
Bankers
3rd Threadneedle Street
London City

Dear Sirs

I have now been favoured with your Circular letter of the 18th inst. and beg to say that I have no knowledge whatever of any Circular Letter of Credit having been issued by me in favour of Mr. Edward Hall.

I am Gentlemen
Your obedient Servant
Peter Cooper

Sept. 20 - 2

Col. C. Graham
65 - 5th Avenue
New York City

Dear Sir

I have your favour of the 18th inst.

I have no special reply to make to Mr. Clarke's letter.

Yours truly
Peter Cooper

180.

9th October 2

Publishers, Star, Montreal

Statement of X in American Gas Light Journal is absolutely false. My Central Station has been running with great success since Fourth September. The insulation of my underground conductors

— is perfect
and its statements to the contrary
and entirely without foundation

Edison

Collect.

Sept. 27th.

Secretary Edison Electric Light Company, Limited.

74 Coleman Street,

London, E. C.

England.

Dear Sir:-

I have your favor of the 14th. inst. with relation to dynamos drawings. The E drawings were forwarded to you about a month ago, the L and K drawings having been sent forward some considerable time before. The L machine is 150 light machine and the draughtsman who made the drawings was in error in calling it 125 light machine. I am very much surprised that Mather & Platt should refuse to lend you drawings. When their Mr Oelrich was here I not only personally went to great trouble to supply him with all information possible but also gave him every facility in my shops and draughting department to further his wishes. I should think that Mather & Platt would have aided you in the matter if only out of courtesy to me in the matter.

Very truly yours,

Sept. 27th.

Col. George S. Gouraud,

London, England.

My Dear Colonel:-

I duly received your favor of the 15th. inst., and am sorry to say that I cannot comply with your request as to Polyform as I do not think that I should come out of it with any great credit to myself whether my name is or is not associated with it, and this is of far greater importance to me than any consideration as to money making.

I will communicate with you ina few days as to Oriental Telephone.

Very truly yours,

Sept 29th.

Charles Batchelor, Esq.

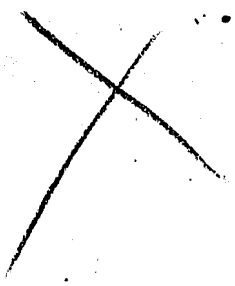
Ivry-sue-Seine

France.

Dear Sir:-

For some time past Edison has been trying to get the right to manufacture the Berthaud Borel cable in this country but has been unsuccessful in getting the permission so far. He wants you to see if you can arrange with Berthaud Borel & Co. to give him the right to make it here on a royalty of say 10 or 15 per cent on the selling price of the cable. They have agents here but we do not appear to be able to do anything with them. Will you look up this matter at your early convenience and advise us of the result.?

Very truly yours,



Sept. 27th.

J. Kearney Rice, Esq.

3 Masonic Hall,

New Brunswick, N. J.

Dear Sir:-

Referring to your favor of the 22nd. inst., Mr Edison desires me to state that he wants the case of Worth fought right out unless that gentleman is prepared to pay all your costs in the matter. Mr Worth evidently begins to weaken.

Very truly yours,

Sept. 27th.

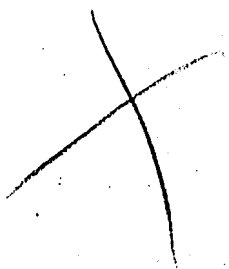
Erastus Wiman, Esq.

314 Broadway, City.

Dear Sir:-

I duly received your favor of the 22nd, inst. with enclosure named. The system of railroad referred to by your Pittsburgh correspondent is nothing more than that of Siemens, at present being used in Europe. My railroad at Menlo Park will be ready to be tested in the course of a few weeks. I will advise you later as to the probable date of the test and it will afford me great pleasure to have you present at the time. We shall doubtless be able to arrange to put an electric locomotive on your proposed Staten Island railroad, but I think it would be too expensive to take advantage of the tide, such as you suggest.

Very truly yours,



4th Oct 2

E. P. Pebbel Esq
care of Messrs J. S. Morgan & Co
22 Old Broad Street
London E.C. Eng.

Dear Sir,

I beg to enclose you herewith, at the request of Mr Johnson, copies of Mr Edisons recent correspondence with Mr Arnold while Secretary of the Edison Electric Light Co London. This correspondence must be taken in conjunction with the letters written by Mr Johnson. Mr Edisons letter, you will doubtless observed very serious but I thought when I wrote them I still think that we were fully justified in adopting a somewhat extreme tone in addressing Mr Arnold considering the very unjust charges made upon Mr Edison, the insinuations and implications that are cast upon Mr Edisons whole attempt to act towards us in a very "straightforward" manner.

I do not know whether you happened while in Europe to go into Electric Light matters to any

extent with the London Co. and if you do these two points in the Contract which requires revision.

1st The clause as to supply of lamps should be altered as in its present form it must cause considerable controversy between the London Co & Mr Edison. The price set on lamps is 50 cents for Isolated purposes & 40 cents for General Distribution purposes. The word contains this meaning that we are to supply all lamps of whatever candle power or economy at these prices. This may probably be the legal interpretation of the Contract but at the time this clause was drawn we took it as applying to the lamps we were then making i.e the ordinary 8 to 16 candle power lamps. Evidently the London Co took the same view as they wrote us for prices of other forms of lamps which we were not then manufacturing. This clause must be altered or else it will prejudice Mr Edison's interests

as well as those of the London Co in the future. You can well understand that Mr Edison may strike something good on the way of a high resistance lamp. Such a lamp might be an expensive article of manufacture but yet a very cheap lamp to use as it would greatly lessen investment in plant. Now it is extremely short sighted on the part of the London Co to demand all lamps at the same price as should the person in such a course it would simply discourage Mr Edison from experimenting with a view to getting higher resistance lamps as such lamps will in all probability be more costly than the present standard lamps. Besides this Mr White claims that all lamps must be furnished at 40 to 50 cents whether 16 or 100 candle power. Now this is ridiculous if Edison has simply refused to supply lamps (except the standard 8 & 16 candle lamps) at the prices named.

2nd. Then is the question of who

shall bear the expense of ~~taking out~~ future patents. It would be better if the Company would undertake to pay the expenses right from the start & not so cause Edison from waiting four each paid four Patent fees four months. He is at present about $2500 out of pocket on this account.

Hoping that your trip over has been pleasant & that your stay in Europe will greatly benefit you

Remain

Yours very truly

Samuel Insull

206.

Oct. 4 - 2

Messrs Drexel Morgan & Co
Broadway
City

Gentlemen

I duly receive your favor of Sept 27 in relation to Oriental Telephone Shares and beg to thank you for the trouble you have taken in the matter. Please let me have a note of the cable expenses and oblige

Yours Very Truly
Thos A Edison

Oct. 4 - 2

Geo. A Blair Esq
Gen. Supt
Western Edison Light Co
5/653 Wabash Av
Chicago Ill.

Dear Sir

Refering to yours of Sept 25: 82. There is absolutely no truth in the statement that the Edison Co has been negociating with Mr. H. Murray.

On looking further into the cost of "C" dynamos I find I cannot sell them to you under $185.00 f.o.b. New York as the labor and material cost me over $160.00 so please consider my previous quotation cancelled.

Yours Truly
Thos A Edison

7

9.05.1 6 1 3 1 3 3 1 3 2 3 4

65 5 Avenue N.Y. Oct 16. 1882

Spencer Borden Esq
Agent Edison Lt. Co. for So. Eight
P.O. Box 388 Fall River
Mass.

Dear Sir

Please accept thanks for letter of S.B. Paine referred to me and which am returned herewith.

I think that upon investigation you will find that the Maxim people use an extra coil around their field magnet or around their exciter this extra coil being in the line and as lamps are added it diminishes the field so as to compensate for the drop of Electro. motive force in the armature. as they are compelled on account of the great drop within the armature due to load and small mass of iron, to use a separate exciter therein a few lamps would make a great difference, while the drop in our armature due to load is comparatively small, but so large when there is great variation in consumption.

The trouble with the Maxim device is that it does not regulate for speed, but only for more or less lamps, and a variation

of speed causes a great variation in candle power than it would if the dynamo was not used. Another defect is the use of an Exciter which, if it should break down, would stop one or all the main line dynamos.

When you get an order with regular speed but variable load we can send you a hollow bobbin to slip over your field which will regulate for load but not for speed - of course like Maxim dynamo there will be a loss of energy on this device.

About thirty-different styles of Automatic regulators have been made and tried at Monte Carlo, some that regulate for speed only, some for lamps only, and some regulate lamps and make their candle power constant, independent of the number or speed. Out of all them I have selected one which I think can be made satisfactory in the hands of the public; so far it has worked perfectly. It will be just the thing for irregular power. I will be able to supply them in about six or eight weeks. They go inside the regular switchboard box and cause no perceptible loss of energy. Please investigate the Maxim device and report if my opinion as correct as to not regulating

3 S.B.

for both speed and Lamps.

Yours Very Truly

Thos Q Edison

Messrs Gabriel & Chauncey

48 South Street

City

Gentlemen

I was duly in receipt of your letter informing me of the disposition made with your approval by Messrs Drexel Morgan & Co. of the Letters Patent for India for my Electric Light. I have also received from Messrs Drexel Morgan & Co. a true statement of the business, all of which was done with my knowledge and approval at the time. I consider what has been done as a full discharge of all your obligations to me in respect of those Patents, and I hereby release you from any further responsibility & consider the arrangements formerly existing between us.

Yours Very Truly

Oct 2

J. C. Langford Esq.
43 Southampton Buildings
London W. C.
England

Dear Sir

Referring to yours of Sept 19.

We will draw contract to draw models at five days sight through C. A. Magan Esq for the account of new Zealand Govt having been instructed to from your draft.

On your next draft please include the cable expenses which you say Messrs C. A. Magan Esq remits from your check.

Yours truly

Dear Mr. Conway,

Mr Edson has been pressing me to get a settlement of the Ramp Contract and he seems to feel very sore that the matter should have been so long. I think that it is not due to him that it should be closed up right away, as the longer it remains open the more expenses are incurred and must entail upon ourselves financial embarrassment if the Contract remains as at present I will keep any appointment you may be able to make with a view to closing the matter.

Yours truly

Chas Lewis

Thos. S. Stewart Esq
Saltsburg
Indiana Co
Pa.

Dear Sir

Referring to yours of Sept. 30. What is usually understood by the name "Electrical Engineer" is one fully versed in the theory and practical application of Electricity and other laws and rules for the mathematical calculation of the various properties of the current, circuits, generators, connections etc. A good work on the subject is by Sylvanus Thompson, which may be procured through D. Van Nostrand 23 Murray St N.Y. I know of no school that makes a specialty of that branch

Yours Truly
Thos A Edison

Charles A. Young Esq
Box 638 Atlantic City
N.J.

Dear Sir

Referring to yours of Sept. 30. I have never made any such remarks as attributed to me by the Newspaper as the clipping you enclosed, and know nothing about the Ocean Telephone Co.

As for Electric Light Stocks I would refer you to Mr. W. S. Perry, 25 Exchange Place.

Yours Truly
Thos A Edison

221.

Mr Chas. F. Bennett
Camp Alcatraz
New Jersey

Dear Sir

Mr Lawson has directed me to send receipt of your favour of 25th ult & 2nd inst and to say that he is quite willing that you should take the necessary leave of absence to finish your College course.

Yours truly
Saml Sneath
Private Secretary

Wm Bonsall de Bonneville
306 West 14th St
City

Dear Sir

The Depot of our Camp Alcatraz has just been in the Harbor unloading your Tacoma apparatus. Please call him again about Some Indy

Thos A Edison

5th Oct 2

L. P. Page Esq
Secretary
Edison Indian & Colonial Electric Co
6 Lombard Street
London E.C. Eng.

Dear Sir,

I am duly in receipt of your favour of 21st ult together with Indent of your requirements. Upon the receipt of your detail shipping directions I will give the necessary instructions for the shipment to be made at such date as you may desire. As I have to pay for all goods on shipment I desire that you make the necessary arrangements to have my bills met here in New York on presentation of Invoices & Bills of Lading. I would suggest that you instruct Messrs Drexel Morgan & Co of this City to honor my sight draft on you for the amount of my bills.

As to the extra "B" Armatures you have on hand I cannot at present undertake to relieve you of them as I have myself a stock of them on hand but when, at some future time, I shall

doubtless be able to make some satisfactory arrangement with you.

I give you elsewhere my latest prices which I trust will prove satisfactory to you.

Yours truly

Thos A Edison

O. Tuttle Esq
Pittsfield
Mass

Dear Sir.

I shall want from $8000 to $9000 worth Edison Electric Current during the month of January. Perhaps more or less. Please advise me whether you will be able to furnish me with this amount of current. Please reply at your earliest convenience.

Yours truly

Edison Electric Light Co

6th Cat 2

J. P. Jaffe Esq
Secretary
Edison Indian & Colonial Electric Co
6 Lombard Street
London E.C. England

Dear Sir,

I give you below prices of the various Dynamo machines we are now building

Class	No Lights	Price	Burning Amps	Armature
G	60	$550	.40	$150.
F	150	900	$1.25	275.
K	250	1350	1.25	405.
C	1200	10000	2.50	$4263.
E	15	185	.25	40.

The "C" Dynamo is the Central Station Steam Dynamo and included in the price is 150 horse power engine used to drive it. we will deliver all the machines (except the "C") F.O.B. Port of London paying packing & casting here & freight and insurance ourselves. The "C" machine we will deliver F. O. B. New York you paying insurance and freight charges. The reason we are obliged to quote such terms in the case of the "C" machine

is that it is costly to manufacture and the margin of profit but very slight indeed. If you order any L. K. or C. machines to be shipped to Paris other than London I will contribute 25/- a ton towards freight 1/2 % towards insurance and deliver the goods F. O. B. New York.

These terms are a considerable reduction upon those previously given Col Sammond as to the best of my recollection the machines you got from him were quoted delivered at my works here, he paying all expenses of boxing, carting here, freight & insurance. I send you by this mail the catalogue of our Leicester Co here which will give you full particulars of size, weight, &c of the various machines, the price at which they are sold to the public & the installations made at the time of the publication of the catalogue.

I also send you copy of Bergmann & Cos catalogue. I can obtain you a discount of 20% and on large orders 22½% on them

catalogue prices. In addition to cost you will be charged with boxing & all shipping expenses but as the goods are light these are very slight.

As to lamps our prices (delivered at our works) for 16 candle & 8 candle lamps is 40 cents when used for General Distribution business and 50 cents for Isolated business. Ten candle "A" lamps and 32 candle "A" lamps are 60 cents each. We are now making some 50 & 100 candle lamps but have not as yet settled on prices.

I will send you prices of tubes in the course of a few weeks.

Yours truly

Thos A Edison

5th Oct 2)

Messrs Pouchas & Bailey
Paris
France

Dear Sirs

On May 1st 1882 we handed to Messrs Poulter & Thomson for transmission to London the agreement for the constitution of the Edison Gower Bell Telephone Coy regarding which we have received verbal advices that the said agreement was subsequently registered by Mr Carpmael and duly transmitted to the Officers of the Edison Gower Bell Telephone Coy at 6 Lombard Street London

will you make enquiry in London as to the present situation of the above Company especially whether the Construction Company has subscribed for and paid into the Treasury of the Company the amount of stock which was agreed to be paid for by the Construction Coy i.e. £

If not paid in please instruct Messrs Carpmael to look into the matter and come to an understanding

with the Law Solicitors of the Construction Co. Also please take the necessary action in order that the shares stipulated to be paid to the Edison Telephone Co of Europe may come into its possession. Also please look into and advise us as to the present situation of the Edison Gower Coya business and what are its prospects in the different countries for which the patents have been turned over to the new company

Yours truly

Thomas A. Edison
President
Edison Telephone Co. of
Europe Limited

Messrs Puskas & Bailey
Paris

Dear Sirs,

I enclose you herewith bills from the Western Electric manufacturing Co amounting to $970.00 for Telephones shipped to Brussels and St Petersburgh. Will you be good enough to collect the amounts of same from Mm. Paul Bogaic & Chas De Northaux & remit to the Western Electric Co.

These bills are of very long standing and should therefore be settled up as quickly as possible

Yours truly

President
Edison Telephone Co of Europe (Limited)

Oct. 6 — 2.

Edison Paris

Valuation required for guaranty Hambro acceptance one payment Credit-Otheuxie unless cable him immediate Advice Colombo part Albino goes Archimedes tomorrow Salaries two weeks

Edison

Brentano's Literary Emporium

Gentlemen,

Please forward me the work recently published on Phonetic Shorthand as soon as possible. Please send me also a catalogue of the books you keep in stock.

Yours truly, Dec. 24th 1879.

Jan'y 24th 1880. Received Jan'y 6th 1880.

Please send Mr. Addison Sharp with Rep. of Addison Chase. Re examined.

27

October 7 2

Edmonds Paris
Give royalty eight
percent his selling price here Dont
agree exclusive use

9th Oct 2

Mr Thos Logan
Menlo Park
N. J.

Dear Sir
If you having
nothing for me to do
let them go gradually
Yours truly
Thos A Edison

October 9th.

William H. Riding, Esq.

Youths Companion,

41 Temple Place,

Boston, Mass.

Dear Sir:-

Referring to your favor of the 5th., I would refer you to the Bulletins issued by the Edison Electric Light Company a complete set of which is sent you by this mail, the recent files of the New York papers, and Lingraw's article on Gas and Electric Light Illumination in a recent number of the Popular Science Monthly. If you cannot get the information you require from these I will have very great pleasure in answering any questions you may put to me. I am sorry to say that I am unable to write the set of articles that you ask for and my time is so much occupied that it would be quite impossible for me to do so and furthermore I make it a rule not to do anything of this character. If, however, there is any other way in which I can assist you, I pray you to command me.

Very truly yours,

October 8th.

P. V. De Graw, Esq.

New York Associated Press

Lock Box 23,

Washington, D. C.

Dear Sir:-

Reffering to yours of the 3rd. inst., I beg to state that I have in all 285 patents. 139 of these refer to electric lighting and there will be 13 more on this subject which will come out on October 10th. If at any time you desire information as to any of them, it will always afford me great pleasure to supply you with it. I hardly know what you mean by saying your wife wants an Edison Drop Light. If you mean some of my regular lamps, I shall be very much pleased to send them to you free of cost.

Very truly yours,

October 9th.

C? Sheehy, Esq.

Northern Passenger Agent,

W. St. L. & P. R. R.

156 Jefferson Avenue,

Detroit, Mich.

Dear Sir:-

I am duly in receipt of your favor of the 6th. inst. The village plant to which you refer, has not yet been started at Rosolle. We are pushing the work forward, and immediately we have anything to show in this connection I will advise you.

Very truly yours,

October 9th.

Gustav Sutro, Esq.

406 Montgomery St.

San Francisco, Cal.

Dear Sir:-

I am in receipt of your favor of the 30th. ult. In reply to your questions, I beg to state that I have not applied stored electricity for the purpose of locomotion as I do not believe that in the present state of the art it is possible to do so economically. I do not know of any railroad having run by stored electricity but have some recollection of reading of some experiments in this connection being made by the Faure battery people in Paris some five or six months ago.

Very truly yours,

October 10th.

Dear Batch:-

I have not been able to get at the non sparking point on the Z dynamo. I have only been able to apply it to the K and L machines. I am very sorry that you should get your drawings so much behind. We are continually pushing the engineering department to send them to you as soon as completed, but they seem to be capable of standing a tremendous amount of reminding.

Very truly yours,

October 10

Dear Olrick:-

Your letter to Mr. Edison came to hand yesterday morning, and he asked me if I would write you a few lines in reply thereto. I do,not remember exactly what it was that Arnold White said, but I believe it was something with reference to our business here and how very favorable are our chances of doing work as compared with those of the Light Company in England, and he made several statements and quoted you as his authority which were hardly in accordance with the exact facts. Anyway whatever he said is of little importance, and Edison was extremely pleased to get your letter. We have been having quite some trouble with the London Company as to our machinery &c., and it seems to be their impression that we want to force things on them and are roping in piles of money at their expense. I know you can disabuse them of any such idea as this and if they think we are treating them in such a way we have told them that the best thing they can do is to get their machinery elsewhere. We like customers, but we do not like them of that kind. You might send us that dose of taffy which you say you wrote on your return giving anaccount of your electrical inquiries here. We sometimes like to see ourselves as others see us.

The central station has been started all right and we have now been running for upwards of a month and everything works first class. The conductors are just bang up and the dynamo

machines are just as good. We run one of the Porter-Allen engines for 84 hours at full speed and full load on.

I am sorry that things are not going on so well in England but I suppose it will come out all right eventually.

We got fromArmington & Sims two or three days ago their large engine 14 by 13. It is just a daisy. When you first look at it it looks like one side of a locomotive and works like a charm. It will greatly interest us, if, when Mather & Platt have been making machines some little time so as to give them a fair idea of prices, you can send us their figures. We should very much like to compare English and American manufacture and we want to see where one is cheaper than the other and vice versa. Clarke has just gone off for 3 weeks holiday, played out. Edison looks bang up and is extremely delighted with the starting of his station. Everything promises here a very great success. The Isolated Co's business is something tremendous. They are simply coining money and the central station business looks as if it is going to be a great success also. You might write either to me or Edison now and then giving us an idea of things electrical in England from your point of view? I am sure Edison would appreciate it and so would I very much.

Very truly yours,

October 10th.

G. H.

[redacted]. Bliss, Esq.

Chicago, Ill.

Dear Sir:-

CARBON BUTTONS FOR TELEPHONE. I have given instructions for half a dozen carbon buttons to be sent you from Menlo Park.

STORAGE BATTERY. The irregularity in the dynamo when charging will not affect the current in discharging, but will make considerable difference to the economy.

WIRING FOR HEAVY PERCENTAGE OF LOSS. You may figure to lose 20 per cent and still get the proper volts. You have to increase the speed of your dynamo in order to do it, but I do not think it would heat any more than with the ordinary running except the bearings might get a little warm. If you decide to wire in this way in any place, you must be careful not to put any lamps on the wire where you have this loss. Never have but two and a half per cent loss on your lamp system, but you can arrange to have whatever loss you like in the feeding wires leading from the source of power to the system of wires carrying your lamps.

Very truly yours,

270.

12th Oct. 2

Major Eaton,

Your memo of this date with letter to be to light in Portugal to hand.

The European C contracts France Spain Italy Denmark Belgium Austria Germany Prussia & all correspondence as to other European countries should be referred to Mr Edison

Yours truly

Saml Sands

Oct. 12 - 2

J. C. Wood Esq.
St Nicholas Hotel
City

Dear Sir

Yours of 9th inst. Mr Edison entire time is spent in the City, and can usually be found by applying at his office as above

Yours Truly

Saml Sands
Private Secretary

12th Oct 2

Mr. Payson Esq
Brevoort House
Fifth avenue
City

Dear Sir,
I would like to see you at sometime convenient to you either here or at Newark and as soon as from Sir Julius Vogel about which you wish to consult Mr Johnson

Yours truly
Saml Insull
Private Secretary

12th Oct 2

Mr. Thomas A. Edison
Menlo Park
N.J.

Dear Sir,
I want you to stay at Menlo Park for the present but as soon as you get my new laboratory started I shall want you to come in here

Yours truly
Thos A Edison

Can you get someone to bid for the Cows at Evans except the original advance

12th Oct 2

Mr. John P. Randolph
Menlo Park
N. J.

Dear Sir,

Mr Evans has written to Mr Logan to discharge all his men except Evanson, a night watchman, and the two men working on Carbon moulds and when the present order for moulds is finished these two men are to go as well.

He has also written to Mr Keefe to discharge all except half his present force & he has written for Off to come on here.

This should greatly reduce your expenses after this week

Please do Yours truly
Sam Insull

12th Oct

Mr John Ott
Menlo Park
N. J.

Dear Sir, Please come in here after this week as I do not propose to have any more work done at Menlo for the present

Yours truly
Thos A Edison

273.

12th Oct 2

Mrs Chas P. Hughes
Menlo Park
N. J.

Dear Sir

It is essential that the expenses in connection with the Rail Road should be greatly reduced and I desire that you dispense with as [illegible] half of your present force right away. Alfred Swanson can attend to the Dynamos as well as the Engines & boilers so there is no necessity for you to keep Stockmen.

Yours truly

Thos A Edison

Hinds Hes
Newark
N. J.

Continue
Cutting Shaw
fria Oct 9th 798 lbs $3.67 1/2 00
Amount of your bill for turning
Piano.

Yours Truly
Thos A Edison

12th Oct 2

Mr Thos Logan
Menlo Park
N. J.

the men working on them are to be discharged
Yours truly

Dear Sir,
Please discharge immediately all the men under your charge except Swanson (whom I want to attend the fires under the engines & the Dynamos for Rail Road) the two men employed on Carbon moulds for Lamp Factory and the night watchman who must be paid watchmans wages and Engineers wages as he has no Engineers work to do now. As soon as the present order for moulds is finished

Oct 18 4

William L Cox Esq:
22 Lausanne Terrace
Gosport
Newcastle on Tyne
England

Dear Sir

Referring to yours of
Sept 22d I have my fine
now and am thereby make
to avail myself of your offer
Yours Truly

Oct. 18-

John L Randolph
Menlo Park

Get carpenter finish job
How much money do you
want to make Drucks
account good tomorrow
L. Ingalls

Collect

Oct. 12- 2

Prof Colombo Milan Italy

Dear Sir

I beg to confirm cable as follows to you Sept 27. Six coupons duly & duly received.

From you Oct. 10 John Tilton Agent please write Acheson to remain.

From you Oct 6 cable Martin Libby shipped ninety Lemons.

I called Acheson to recall receipt of my letter in which I have requested him to remain with you. I answered your cable as to Rules through the Cable Telegraphic Edition of Paris & requested him to inform you that part of the order was shipped by the Hesperides. The greater part of the Lemons received by the Steamer sailing for Genoa on about the 10th

Yours truly

Wm A Gascoyne

Oct. 12— 2

Messrs Geo. E. Gouraud
6. Lombard Street
London E.C.
England

Dear Sirs

I beg to confirm the following cable to you Oct. 2. 82. "Will accept fifteen shillings cash for all our Edison Telephone"
Edison Telephone

As I have heard nothing from you I take it that you cannot negotiate the stock at the above figure. Of course you will understand that the offer is not made to stand open indefinitely but if you have any proposition to make in the matter we will consider it

Yours truly

Thos A Edison

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, _____ 188

TO
CHAS. BATCHELOR,
PARIS, FRANCE.

10 mon Ch. Sir. Would eight percent
the selling price for Dock agen exclusive
use.

17th Oct 2

P. Walker Nadin Esq
Fifth Avenue Hotel
New York City

Dear Sir,

Mr Edison would be glad to see you here tomorrow at 10 a.m. as to your proposition

Yours truly

Saml Insull
Private Secretary

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 22nd Dec 1882

TO
F. R. Upton Esq
EDISON LAMP CO.,
Harrison
MENLO PARK, N. J.

My Dear Sir

Mr Edison has directed me to send you following extract from a letter received by Mr Howard Johnson from a friend at present in London; and who was one of the American Jurors at the Electrical Exhibitions at Paris & London:—

"I have informed you that the Lamp Peck are coming out strongly in favor of Swan. I was most disagreeably surprised to learn this but there can be no doubt that Swan has a wonderfully good lamp and is making improvements daily by the Edison is ahead on the score of resistance but by using a smaller filament and higher potential he (Swan) has obtained wonderful results. His lamps are thoroughly well made and the connection has come to me in a way I cannot mistake. That he has the best lamp is well known today. It is well that Edison should know this as early as possible and be governed accordingly. Mark

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, _____ 188

EDISON LAMP CO.,
~~MENLO PARK, N. J.~~

this the coming carbon is the carbon which before being carbonized is treated by Levant process or some other process. I told you in my last letter that I had run lamps of this 100 ohms hot, 20 candles, 86 volt ampere, 6 ampere. This will give 400 candles per Electrical Horse Power."

Yours truly,
Chas Batchelor

Oct. 13. 2

A. Barstow Esq.
Lisbon Falls
Maine.

Dear Sir

Referring to yours of Oct. 9. what you suggest has been done. You might however communicate with Mr. Spencer Borden of Edison Co for Isolated Lighting Heraea Building Boston Mass.

Yours Truly
Thos A Edison

Oct 13 - 2

Gen. Russell Sage
Supt Office Park Comm
City Hall
Chicago Ill.

Dear Sir

Referring to yours of 10th inst

I am making improvements in the installation of the Tracks of the Chic. Rail Road on the completion of which I will make an appointment with you for Mr Boller to see the Rail Road, and our lighting operations here, I expect it will require about two weeks to complete the change in the tracks

Yours Truly
Thos A Edison

Oct 13 - 2

Wm H Wahl Esq
Secy Franklin Institute
16 & 7th Sts
Philada. Pa.

Dear Sir

Referring to yours of 9th inst. My central station in the first district is not yet working up to full capacity, but as soon as it is I will be glad to give you any information or particulars that you might deem of interest to your Society. I am glad to decline all invitations to speak in my own behalf, and my assistance as any time as heretofore.

Yours Truly
Thos A Edison

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE,

New York, 12th Oct, 1882

TO

CHAS. BATCHELOR,

Lee Londres et Comte Edison

PARIS, FRANCE.

My Dear Sir

I enclose you herewith statement of account showing balance against you of #2224 49/4

I was only able to get two Pratt & Whitney screw machines so I sent you as a third one made by the Wicaco Co of Philadelphia which I am informed is equally as good as the two whose tools can be used in connection with it.

I shall be glad to receive a remittance from you at your convenience

Yours truly

Thos A Edison

16th Oct 2)

W. Payton Esq
Provost House
City

Dear Sir,

Referring to enclosed telegram I beg to state that I have but two contracts as to Telephone for Australia the first one being with the Western Electric Manufacturing Co of Chicago by which they undertake to pay me £1 00 for every instrument they put up in Australia, the second agreement is with the Oriental Telephone Co of London, assigning to them my Contract with the W. E. M. C° and also any other rights I may have in the way of Patents or Goodwill in Australia.

my name in Australia in connection with telep outside these two agreem it is entirely without m knowledge or approval. If I can be of any assistance to the Orien Telephone Co in preventi any such fraudulent use of my name I sha be most happy to do a

Yours truly

Thos. A. Edison

302.

Oct 18th

Mr. Jno. F. Randolph
Menlo Park
N. J.

Dear Sir,

Referring to enclosed please make out the Bill against Lamp Co for Pounds & weight giving details of cost of labor & material then add 20% to the total under the heading of "General Expense".

We have decided not to sell the Cows I shall be out tomorrow (Thursday) about twelve o'clock. Yrs Hughes

Yours truly,

[signature]

18th Oct 2

Mr. John F. Ott
Menlo Park
N. J.

Dear Sir,

Referring to yours of 17th inst. everything is to be brought to New York — models bottles & everything else

Yours truly,

Thos A Edison

306.

Oct 18— 2

Geo. A. Bliss Esq.
57 & 59 Wabash Ave
Chicago Ill

Dear Sir

Referring to yours of 18th inst. In regard to the size of the plates determining the quantity and the number of plates in series determines the electro-motive-force.

Your second 100 light shunt be run on a main having 2½ per cent loss, from a feeder and a second feeder used. The whole thing is to never have but 2½ % loss ~~from~~ upon main ~~a feeder~~, you can lose what you please on the feeder as no ~~as no~~ lamps are put on. Send me sketch of the two sets of lamps with distances and I can give you the calculations and proper sizes.

Yours Truly Thos A Edison

Oct 18— 2

The Wilson Sewing Mchn Co
255-257 Wabash Ave
Chicago Ill

Gentlemen

Referring to yours of 10th inst

I have no knowledge of sewing machines and am therefore unable to comply with your request as I make it a rule not to offer an opinion on any subject that I am not familiar with

Yours Truly
Thos A Edison

Oct. 19 2

Messrs Arthur & Bonnell
64 Nassau Street
City.

Thos. Logan Esq
Menlo Park N.J.

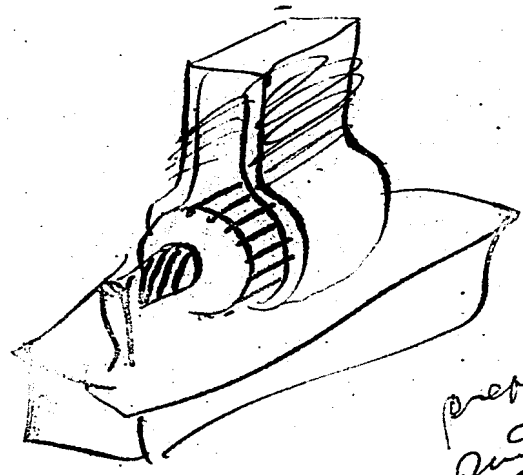
Oct. 19 2

Gentlemen

Please send a receipt book numbering from 200 up. of same size and cloth like books previously supplied.

Yours truly

Thos. A. Edison



prepay charges and charge Logan

Machine with simple cones one face of Cylinder ¼ inch apart
Commutator bars have wave motion
made by Bergmann is at end of
Bench in shop just as you
open door - pack & ship to
Prof Morton, Stevens Institute
Hoboken N.J.

308

Oct 19 – 2

20th Oct 2

C. L. Dean Esq.
Edison Machine Wks
104 Goerck St
City –

A. Stuart Esq
54, 56, & 58 West Front St
Cincinnati

Dear Sir

Dear Sir, Referring to your letter of 14th inst your
Referring to yours understanding of our
of yesterdays date relative Village plant system is
the Bergmann Switch Board, correct. The intention is
The Edison way it works to supply a Central
all right Station System for Village
use at a cost which
will enable the Investor
make money even when
the demand for light is
comparatively slight.
we are putting the
plant into operation at
Seville and expect it
will be running in
about four or five weeks.

Yours Truly
Thos A Edison

Yours truly
Thos A Edison

309

20th Oct 2

Prof Silliman
Yale College
New Haven Ct

Dear Sir,

Your favor of 18th inst came duly to hand and I at once sent you a set of the Bulletin as requested.

I think you are mistaken as to gas being safe from attacks by electricity. So far our experiments in actual practice have shown that we can compete with gas at the same price and it is further shown that if necessary the public will gladly pay 50% more for the same quantity of light produced by my [illegible] than they would have to pay for gas. Furthermore the margin for future improvements is far greater in the case of Electric Light than in that of gas.

When you are next in this city if you will give me a call I shall be glad to have a talk with you on this subject and show you something of what we have done.

Yours truly

Thos Edison

312.

20th Oct 2

William A. Rideing Esq
Youth's Companion
Boston

Dear Sir

My reason [illegible] soon to me your favor of 19th to reply to.

I have been trying to get a copy of Scribner Magazine for Nov 78 in order [illegible] to be able to reply to your questions but have been unfortunately unable to get the Magazine.

If you have a copy & can loan it to me I will answer your various questions

Yours truly

Saml Swett
Private Secy

20th Oct 2

46 John St
Menlo Park
N.J.

Dear Sir

You will find several Quaint Images such Curios Pictures in the Photo. Named in the Enclosed. Please pack and send them by boy to Prentiss A. M. Clos. Esq Care Edison

Yours truly

Thos A Edison

Oct. 21— 1

Messrs Haynes Perry & Frankfeyn
54 Wall Street
City

Gentlemen

I enclose postal card from Borden Watkins. Will you please look into this matter for me, and oblige

Yours truly

Saml Insull

Oct. 21—

Thomas Logan
Menlo Park

You must hurry shipment of machinery and tools dont keep men moment longer than necessary

Thos. A. Edison

collect

23rd Oct

Mayor Eaton

Referring to memo of 20th with enclosed letter attached the test was made with the same Dynamo we use in our Central Station business which differs from the machine we supply to the Located Co. Refer to Young & Brackett test which was made with the same kind of machine used by the Located Co. the efficiency of which will be same as the Bell machine. The special point in this test is the commercial efficiency. Many machines can show a scientific efficiency of eight or ten but have not more than 50% commercial efficiency It is this Commercial efficiency which makes our machines so economical and we stand alone in this particular

When you can give Young & Brackett test I do not know but I fancy it is called No 8 of the Scientific American or it is one of Van Nostrand's publications Prof Ayrton

28th Oct 2

William A. Rideing Esq
Youths Companion
Boston

Dear Sir,

Your favor of 21st inst came duly to hand and also copy of Lambness mag. addressed to Mr Edison.

I will go into the matter as early as possible & will doubtless be able to send you a detailed reply in about three days.

Yours truly

Saml Insull

28th Oct 2

Chas L. Rocap Esq
Edison Machine Wks
104 Lyerich Street
City

Dear Sir,

Please send (tomorrow, if possible) one K. Dynamo to Benjamin & Co Cor 17th St & Avenue B. Have Jim go along with it as they want it hoisted up to the second floor.

This machine is to be billed at $1200 as specially arranged with Mr Edison

Yours truly

Saml Insull

322

Oct 24 – 2

John F. Randolph Esq.
Menlo Park N.J.

Dear Sir

Please advise N.Y.
Bottle apa credit American
Bell Tel. Co. $459.26 as of
this date & oblige

Yours Truly

Saml Insull

Oct 24 – 2

Wm J. Macomber
49 Weybosset St
Providence R.I.

Dear Sir

Referring to yours of the
21st inst.

I cannot put it on
the basis of profit as we do not
sell the wire but use it ourselves.
I think my offer to you was
better than any one would give
who intended to use the invention
in a legitimate and proper
manner. You might apparently
do better by other methods but
time would probably show that
my proposition was the best.

Yours Truly

Thos A Edison

P.S. My superintendent has made
desire to have a small sample
of the wire. Please address it to
John Kruesi, 65 Washington St.
(Electric Tube Co.)

Oct 2nd 2

Société Electrique Edison
33 Avenue de l'Opera
Paris France

Gentlemen
I beg to confirm cable as follows.
To you Oct 21. Cable shipping directions Limbo
Edison

From you Oct 23. Ships 1000 sockets with 1000 witnesses each Hamburg Antwerp
Electric

I have had two Central Station Dynamos ordered by you standing in my shop for about a month awaiting your shipping Directions. I do not understand why you have not advised me what to do with them.

Your orders for sockets is receiving attention. Part of them will be shipped this week and the remainder next week

Yours truly

Thos A Edison

Oct 25 — 2

Secy Edisons Electric Light Co Lim
74 Coleman Street London Exp

Dear Sir

I beg to confirm cable as follows
From you Oct 12. Boats dispatch White
Star Line postpone coming till you see
him next week Bowrie

From you Oct 18 Am writing in friendly spirit
strongly deputation matter contrary in interest
all concerned White Leave Friday. Bowrie

From you Oct 24 Wire Lima Arthur and
one C dynamo only

The delay in shipping
another "C" Dynamo is owing
to the trouble I have had in
getting Engines. The Dynamo Engine
boilers are now being packed and
will be shipped by the first London
steamer

I note your cable that
Mr White has called for her & you
I shall be glad to see them on
his arrival

Yours truly
Thos A Edison

Oct 25 - 4

S. F. Bailey Esq
33. Avenue de l'Opera
Paris France

Dear Sir

I beg to confirm cables as follows
From you Oct. 18. Ship quick glass twenty
thousand lamps arrives when Heraclite Paris
"Bailey"
To you Oct 21. Army order dynamos urgently
Cable go Wednesday "Edison"
We have orders from
Batchelor to make regular shipments
of glass. Our shipment went on
to days steamer.
We are urgently in need
of orders for machines if you
can help us out any I shall feel
very much obliged to you
Yours truly
Thos A Edison

Oct. 25 — 2

H. W. Lyman Esq
Cincinnati Ohio.

Dear Sir

Referring to yours of 19th inst. My Telephone interests are under the control of the American Bell Telephone Co. Milk Street Boston to whom you can apply for license etc.

Come Truly

Thos. A. Edison

Oct. 25 — 2

F. W. Jones Esq
New York Electrical Soc.
N. Y. City.

Dear Sir

Referring to yours of 21st inst. There is nothing to see at Menlo Park as I have closed my Laboratory there and have again settled in New York.

I shall be glad to see you here with your friends any time. If I am not in my Secretary Mr. Jones will be able to tell you where to find me.

Come Truly

Thos. A. Edison

329.

25th Oct

Oct 25 – 2

Patterson Bros.
27 Park Row
City –

Gentlemen

Please send to my home 25 Gramercy Park City –
1 Carom Rake
1 " Hoe
1 " Spade
Please charge to my account and oblige

Yours truly
Thos. A. Edison

My Dear Prince,

Your letter of 5th inst introducing Mr. Cappel was presented at my office by that gentleman but unfortunately I was not in at the time.

My Secretary however took Mr. Cappel through our Central Station and called on Telegraphic Mr. Cappel making an appointment which he was not able to keep. I was very sorry to have missed him.

I should be glad to see any of your friends coming this way & do anything for them that I possibly can

Yours very truly
Thomas A. Edison

20th Oct 2

Chas Batchelor Esq
Jersey City Heights
Per ac

My Dear Batch

Yours of 9th inst came to hand this a.m.

I can scarcely enlighten you yet as to engines. I have coupled the engines at the Station (Porters) with the Device of which you have heard successfully and this week I am going to test two Ammonton Mines Engines with a coal car, & see how they act under the same conditions as Porters Engines. Then I shall be able to decide as to which engine we will use. I certainly do not think it will be the Porter. Immediately I decide I will send you the necessary drawings.

I think the best thing your people can do is to pay Siemens a royalty in Germany. The England Co pay him a royalty of 6% on the selling price but if your people make any such arrangement you must see that it is only for the life of the Armature patent. Siemens

will say to make the license for all his patents but do not allow this or you will have to pay royalty for a considerably longer period than if the license is confined to the Annan patent.

I will have the information you ask for got out & sent you as early as possible

Yours truly

Thos. A Edison

26th Oct 2

Société Industrielle et Comle Edison
Ivry sur Seine
France

Sent 29 Enclosed please find B/L for shipment of glass billed to you in our Invoice of yesterdays date

Yours truly

Sam Insull
Private Sec.

26th Oct 2

Chas Batchelor Esq
Savoy-sur-Seine
France

Dear Sir,

I send you by this mail under separate cover copies of the evidence in the Savoyard-Man Interference & the Brush & Kutto Interference. If you require any further information in connection with Lamp & Dynamo cases please advise us. You have all the evidence in the Pole Road cases.

Yours truly

Saml Lowell & Co

26th Oct 92

The Secretary
Edison Electric Light Co
74 Coleman St
London E.C. Eng.

Dear Sir

Understanding that you have some trouble in consequence of the space occupied by your Plant I send you a window repaid some tracings of the Plant for our 60, 150, & 250 light plant. The engine used is the Armington Sims running at 300 revolutions

Yours truly

Thos A Edison

Oct 27— 2

Mons. Jno. Sautini
10 Rue Petitot 10
Geneva Switzerland

Dear Sir

We are sending you by Wells Fargo Express all the Patent Office drawings relating to Electric Railroad Cases, with working drawings of Commercial Apparatus, same as, and the Specifications now on our order way and will follow in a few days.

To prepare the rail for laying, the ends are to be taken from the end on both sides shaved to true smooth by filing or by using a suitable machine, then immerse in good boiling Japan-leaving the top or head of the rail bare, & the web should then be touched up with a brush and the ends shaved and brightened with Borax and allowed to remain long enough for the Japan to set in the air after which it is ready for laying. The Japan in the solution should be diluted with a Mineral Spirit composed of three parts Turpentine to one part coal Gasoline.

The oven should be heated to 320° F. and the rails left in about one hour. The spikes may remain about the same time.

2

The cloth for insulating the rails from the line, is prepared by drawing it through a bath of Japan, thus leaving between the hairs of the cloth coarse with coloured the superfluous Japan is removed leaving a smooth even coat. The upper selvidges should be singed so as to permit of the cloth being put between them with ease.

By stretching the coarse muslin strips on a frame made by driving pegs into boards and keeping the boards the desired distance apart by nailing strips to them and using the frames in the same manner enables me to get a large quantity in at one time and to bring it out smooth.

The nails clamps spikes and bolt shanks all have two coats of Japan at least and three would be better.

In hanging the wires we find the best way is to put them under the fish plate screw the nuts almost up and have two men stretch them tightly by means of a bar and pull the grooves while a third tightens the nuts and so holds them in place.

By keeping the wires on the inside of the rails grooves they will accommodate themselves to the bend of the rails and will not be rubbed and consequently not

be liable to be disturbed.

In laying the track three thicknesses of the Japanned cloth strips are used and the seam the cloth come the middle of the tie upon which the rail rests.

In putting the cloth under the rail in several places breaking the circulation by using a narrow bar for raising the rail with several thicknesses of Japanned cloth between the tie and rail while raising it.

The force then substitutes the clamp into place on the foot of the rail and driving the tie of it into the tie before driving the spike disrupts the insulation any little if any.

The trays can always be kept from the end of the tie under lowering the rail

We found that the copper plate under the field blades after long exposure to the weather became wedged and increased the resistance of the rail at the joint and to improve this we had recourse to the plan shown in Patent Office drawing marked No 467 of running two continuous wires on one side of each rail and the other wire on the other side.

By adopting this plan we reduce the evil effect of bad contact at any one joint to the minimum, as the rail gets the current from the first joint when good contact is made when nothing but the shoe-strips at the joint were used, if one joint happens to be bad the resistance of all the track beyond that joint was very much increased.

The gauge of our wheels is 3'5½" and of the track 3'6½" on straight track and 3'7" across curves so we find that the cars move easily with no binding on the curves and it is perfectly safe as the wheels is 3'2".

I send with the other drawings a sketch of the bow we use for Japanning the cloth.

The insulation of our two miles and a half series of cells with the weakest battery never fallen below 100 ohms.

On account of accurate current from the track itself it is very difficult to make accurate measurements of the resistance between the tracks by the ordinary methods and we have found the best way is to touch one of the cables with a wire, putting a lamp across the spring made by removing the plug and noting

the light it gives.

Then put another lamp across the two lines inserting enough resistance to make both lamps alike and the total resistance put in circuit with the lamps across the line is the resistance between the leads.

We have succeeded in making our joints so good that the drop in electromotive force at the end of one lead and a half miles of leads only makes a difference of 20 divisions of the Annadale of the meter between the volume and one when the cables are attached to the leads which is very good considering the fact that one mile cables only weigh 16 lbs per yard and that we only use 110 V. wire on one side of each rail and two short strips of flat copper on the other side.

Yours truly

Thos A Edison

per L.

27th Oct 2

John Roche Esq
Telegraph Department
Dunedin
New Zealand

Dear Sir

Your letter of 6th Sept addressed to the Manager of the Edison Electric Light Co came duly to hand.

The Electric Light interests for New Zealand are controlled by the "Edisons Indian & Colonial Electric Co" 6 Lombard Street London E.C. England to whom I have referred your letter. The General Manager of that Co (Major Flood Page) is now on his way from London to Australia for the purpose of negotiating for the introduction of my Light into the Australasian Colonies. He will go to Sydney & Melbourne but I do not know whether he will go to Dunedin

Yours truly

Thos. A Edison

27th Oct 2

Professor Geo. F. Barker
3909 Locust Street
Philadelphia

My Dear Sir,

Your favor of 25th inst came to hand yesterday & I note what you say as to the Draft of letter to the Board of Trustees of Columbia Colleg. Mr Edison was in error when he informed you that com'g machines could in process of manufacture as none have been built since the shop burned for the lot of which Mr Vaughan had one. As soon as we make more of them I will see that one is sent you. If I can find one not in use I will have the Armature accounted & the machine sent to you.

The Central Station is running all night. About 1000 more lights will be cut in next Monday & another 1000 a little later

Yours truly

Saml Sneed

353.

29th Oct 2

Jno. P. Randolph
Bento Park
N. J.

Dear Sir,
Please send on the box containing my Personal Books immediately & oblige

Yours truly
Saml Insull

I gave Chas $20.00 Please have him account to you for it & credit N.Y. Books with the amount

29th Oct

Messrs Durham & Stevenson
143 Union Street
Nashville Penn.

Dear Sirs,
Referring to your favor of 24 inst. We have in this Laboratory a Bento Park a Gas Meter made by some Detroit (Mich.) Penn. It always worked satisfactorily but lately have used Electric Light which is much to be preferred

Yours truly
Saml Insull
Private Sec

29th Oct 2

My Dear Batchelor

Your letter of 14th inst came to hand yesterday and in reply I would state that I do intend to furnish apparatus to England, & that I do not wish you to bid for the work. Of course if the English Company wish to manufacture they can do so and I think I shall always be able to supply them from here much cheaper. I have written to the Indian & Colonial Co on the subject.

Your cable about Remington Engines came to hand yesterday. I shall doubtless be able to give you a definite answer by Wednesday next.

I am sorry you got another shipment of bulbs marked "Electric Lamps". We were too late to get the alteration made in the B/L. It will not occur again however.

Yours truly

Thos A Edison

357

29th Oct 2

Leslie D. Ward
Prudential Ins Co
Newark N.J.

Dear Sir,

I have turned your letter of 26th Oct over to Mr. F. Moore General Manager of the Edison & Jon Isolated Lighting 65 Fifth avenue. He will write you giving you all the necessary information

Yours truly

Thos. A Edison

29th Oct

Mayor L. B. Eatons
President

Dear Sir,

Inclosed you herewith letter from the Electrique Edison as to Electric Light in Venezuela Mr Edison thinks that if the Loc. Elec. Edison could sell a plant we should let them do so on the basis of some division of profits, as it would be a gain to us to get the light started there.

I have written to the Loc. Elec. that the letter has been referred to you & that you will probably write them on the subject.

Yours truly

Thos. Edison

29th Oct 2

Societe Electrique Edison
33 Avenue de l'Opera
Paris
France

Dear Sirs,

Yours favor of 11th inst
re Electric Light for Venezuela
came duly to hand. My Patents
for that Country are controlled
by the Edison Electric Light Co
at the above address and I have
accordingly referred your letter
to their Managing Director Mr Jno
Mayor S. B Eaton will write you
on the subject.

Yours truly

Thos. A Edison

X

30th Oct 2)

The Secretary
Edisons Indian & Colonial Electric Co
6 Lombard Street
London E.C. Eng.

Dear Sir

Referring to your order for
four Z Dynamos I would suggest that
you consider the advisability of ordering
some of the larger machines — A & E. (250 &
150 Light) These are very much cheaper
than the Z and in every way far better
machines. In this country a great many
of them are being put down & give far
greater satisfaction than do the Z.
machines

My Assistant in Paris (Mr
Charbaticow) writes me that you have
asked him to tender to you for the
supply of apparatus under the
impression that I will not be able to
supply you with what you want. I can
assure you that whatever machines
or lamps you may require I shall be
able to ship you from here very promptly
& would therefore suggest that any orders
you may have, be sent to me
what is your cable address

Yours truly
Thos A Edison

31st Oct 2

Hon Chas J. Folger
Secretary of Treasury
Department of State
Washington D. C.

Sir

By the S. S. "Prussian Monarch" as per enclosed Bill of Lading I received thirty cases of Electrical Instruments returned from Europe which I sent to Paris during the summer of 1881 for exhibition at the Paris Electrical Exhibition and subsequently to London for exhibition at the Crystal Palace Electrical Exhibition.

These instruments were shipped from New York by various steamers of the Compagnie Generale Transatlantique as fast as they could be got ready and without any exact record of the steamers by which they were sent being kept and hence the evidence of outward shipment by the various manifests is more or less incomplete.

As per enclosed Consular Certificates and Foreign Customs receipts you will see that with

the above exception the papers are all in order for free entry and I am advised by the Collector of the Port to apply to you for permission to enter the goods free of duty without giving the formal evidence of outward shipment.

I would ask of you to exercise your good offices in this matter as early as possible as I am anxious to use some of the Instruments referred to in connection with some experiments which I am now conducting.

Kindly return the papers enclosed.

I am, Sir
Your obedient Servant

Thomas A Edison

The Secretary
Edison Indian & Colonial Exchange
6 Norman Street
London E.C. Eng.

Dear Sir

Yours Feb 20th also
to hand this morning.

My prices are quoted on
the basis of payment here in New
York and all my business with my
Foreign & Home Correspondents is
conducted on that term. My purpose
in so requesting that I cannot
afford to tie up of my money
four weeks after shipment of goods
and have to pay Bankers Commission
for the collection of my Invoices
in addition. Unless not give me
authority to draw on your Co
Next day sight & your authority draft
to Morgan & Co of this City & hence my
Draft on presentation of Invoices
& Bills of Lading?

Could look up and learn
your requirements at my
Yours truly
Thos A Edison

To Col

Col Geo. E. Gouraud
6 Lombard Street
London E.C.
England.

My Dear Colonel,

Answer Required

Your letter of 19th inst came duly to hand. I think that the best thing I can do is to keep my "Bonds" till some more favorable opportunity for selling. I see that two days after the date of your letter the Atlantics were 81/4 per cent premium.

Yours truly,

Thos. A. Edison

Ans. 19

369.

Oct 31 — 2

C. T. Hughes Esq
Menlo Park N. J.

Dear Sir

Referring to your letter of 30th inst. You must help on trying all kinds of experiments. If you have an Indicator you might indicate the engine with varying loads and speed. Do you keep an experiment record book?

Yours Truly

Thos A Edison

Oct 31 — 2

J. A. Jackson Esq
71 Euston Square
London Eng.

Dear Sir

Referring to yours of 27th inst.

I beg to inform you that I have no position open that I can offer you

Yours Truly

Thos. A. Edison

370.

Oct-31- 2

Soc. Int. de Comb. Electr.
Rue Jean Leire
France

Gentlemen

I beg to acknowledge the receipt of your favor of 17th inst. containing original cheque for $3000 which has been duly credited to your account

Yours truly

Thos A Edison

Messrs Bergmann & Co
Cor Avenue B & 17th St
City

Dear Sirs,

I have no definite particulars as to Regulator sold Mr Batchelor

You had better send him two sections of the "C" Dynamo regulator with a coupling on the end of the shaft to enable him to put more sections on if necessary. As to the "E." regulators send him one of your regular regulators for this purpose

Yours truly

Samuel Insull

31st Oct 2

Societe Electrique Edison
38 Avenue de l'Opera
Paris
France

Dear Sirs,

I send you by this mail under separate cover tracings of our 60, 150 & 250 light plants which will give you some idea of the compact manner in which these plants can be installed & the small space which it is necessary for them to occupy

Yours truly

Sam'l Insull
Private Secretary

375.

1st Nov 2

Dear Mr Rowley

Your letter of yesterday & telegram of today came duly to hand. It is quite impossible for Mr Bacon to meet you today. He has on hand the most important experiment he has had to conduct in some months i.e. the coupling of two Remington Rims Engines together.

Will you please make another appointment.

Yours truly

Paul Lacombe

1st Nov 2

Messrs Hayward Penny & Hayward
54 Wall Street
City

I enclose you herewith B/E for £ 8000 drawn by Mr Bacon & Chestnut discounted can you find out me what rate can be obtained & let me know.

Yours truly

Paul Lacombe

377.

2nd Nov 1

Mayors Room
1st Nov 2 City Hall
Brooklyn.
N. Y.

Messrs Spaulding Collon & Co
24 Milk Street
Boston

Dear Sirs,

Referring to your letter of 30th ult the ink you refer to is not prepared by anyone now). Do you want to make it

Yours truly
Saml Snell
Private Secretary

I enclose you herewith permit to visit our Central Station in Pearl St in case you should wish to enquire into the nature of the work for the conduct of which in the near future there will be a great demand for Electrical Engineers.

I will send you a copy of Mr Edisons letter to the Trustees of Columbia College as soon as he has signed it

Respectfully
Saml Snell
Private Secretary

Nov 2

Professor Geo. P. Baker
309 Lenox Court
Philadelphia

My Dear Sir

Your favor of [illegible] to hand. We are not [illegible] today but I will draw up a letter immediately & see them.

I have instructed the Supt of the Machine Works to send you the Bullard. Have you all you ask for. You should get it Saturday.

Mr Lowell may call on Mayor Low of Brooklyn (one of the Trustees of Columbia College) as a matter purely between the Board of Trustees. Mayor Low will [illegible] and should respond

[illegible] with the value of the suggestion. If Mr Lowell [illegible] but drafts letter in time I could send it in before the next meeting of the Board which takes place early next week

Very truly yours

Geo. L. Rives

2nd Nov 93

Lewis F. Bacon Esq
38 Avenue de l'Opera
Paris

Dear Sir

The enclosed Receipt &c was given me to-day for Bill against the Edison Telephone Co of Europe. &c. &c. which amounted to Francs 1000 which I paid to Mr Parmelee, and for which he gave me this Receipt, and at the same time Mr Parmelee left with me a letter dated 2nd inst

Yours truly

Thos A Edison

2nd Nov 2

S. B. Eaton Esq
President
Lawn Electric Light Co
Dear Sir,

Your favor of 1st inst with enclosures (which I now return herewith) came duly to hand.

My views are very strong against suing Maxim or Swan, and my reasons exactly the same as given a year and a half ago when it was urged with great persistency by the Directors that a suit should be conducted against Maxim. Since that time the Maxim Co have lost not less than $500,000, directly & indirectly, in their attempts to introduce Incandescent Lighting and today they cannot be looked upon as in any way being rivals

As to the Swan-Brush Combination my opinion against suing them is even stronger than in the case of Maxim in so much as the use of an Accumulator cannot but hasten their destruction.

I fail to see the necessity of our entering on costly & lengthy law suits against Impressarios and

rivalry has in no wise affected our business. we should only be expending money and time which our business most certainly requires and give a prominence and publicity to Infringers who are not at present doing sufficient business to cause us the slightest alarm.

Very truly yours

Thos A Edison

3 mo 15 [illegible]

Edwin Prime Esq
74 Trinity Place
City

Dear Sir

Enclosed please find Report of Counsel Re Patent of Edison & Pearsall for Electric Railway. Counsel Have. Re Edison & Pearsall which I forwarded to the Secretary not returned Yours truly

Sam'l Insull

386.

3rd Nov 20

Henry Draper
271 Madison Avenue
City

H. Vallenaire Esq
174 William Street
City

Dear Sir,

Referring to yours of 1st instant would be glad to know if you are a member of the Committee of Arrangements which I was unable to do at Delmonico's to-day and may be unable to do so at the proposed dinner. I shall want to Nominate about $17,000 Nominees about $7000 on Hamburg at 90 days & about $2500 for A.C. Societe Electrique. I will be down about noon

Yours truly

Saml Sneath

3rd Nov 20

H. Vallenaire Esq
174 William Street
City

Henry Draper
271 Madison Avenue
City

My Dear Sir,

Dear Sir, Referring to yours would be glad to know favor of 1st instant if you are a member of the Committee of Arrangements calling on you to-day which I was down town for the proposed dinner and may be unable to do so at Delmonico's to-morrow. I shall want to Nominate Nominees about $17,000 on Hamburg at 90 days & about $2500 for A.C. Societe Electrique. I will be down about noon

Yours truly

Saml Sneath

387.

3rd Nov 2

Mr Philip S. Dyer
Edison Lamp Co
Harrison
N. J.

Dear Sir,

In reply to your sample by metal from letter of 2nd inst Mr Edison owners Manufacturing Co has directed me to state that he has no objection to your using his address immediately for your circulars &c

Yours truly

Saml Insull
Sec^y

3rd Nov 2

Mr Jno. P. Randolph
Menlo Park
N. J.

Dear Sir,

If you receive a

Yours truly

Saml Insull

388

3rd Nov 2

D. A. Burnell Esq
Little Falls
N. Y.

Dear Sir,

In reply to your favor of 1st inst Mr Edison has directed me to state that he will try some experiments on the separation of cream from milk as soon as he can spare the time to do so.

He has a great many suggestions made to him but few of them are of a practical character or refer to experiments the success of which would be of no advantage to anyone. It therefore affords him great pleasure to have his attention directed to a subject the solution of which would be advantageous to many and

lucrative to himself.

Mr Edison has asked me to remind him of the matter at some time when he has the time to try the experiments. If any result comes of it I will make a point of writing you.

Yours truly

Chas Burnell
Private Secretary

9th Nov

C. B. Eaton Esq
President

Dear Sir

I return you herewith Howells letter as to Canadian Lamp Factory

I also return you McWeeds letter as to Baltimore. You say "meantime the Brush Co are making headway as appears from this letter". The letter as far as I can see does not show it. You may not be aware of it but the Carbon Co for I located Lighting are the Co which has the plant in the Baltimore Sun office. Is this the "headway" of the Brush Co that you refer to?

Col Dyers bill enclosed is O.K.

I return you R. H. Dyers letter of 28th ult which I have read with pleasure. I also return Gramme Co's list of Patents, list of new companies letter from Gramme Co as to Underground Conduit Co

As to Cowles letter re Bradley herewith the Factory is worth $20 per week only & certainly not more

As to Rice's letter herewith I am making up a nice little package of sand & shall send it out to Chicago

with an intimation to Bliss that I think it would be well for him to deposit it in his gizzard!!

I think you had better pay Curtis what he asks in enclosed letter.

As to your memo as to Wilbur, I do not think there is much in it. Does denies making any such statements. If Wilbur has changes of this character to make he should be made to state the name of the person to whom the remarks were addressed.

I will try & go on to Boston but I doubt whether I can spare the time.

I return you Hayards letter as to Excelsior Company. I do not see any reason why we should attend over unto on their behalf & should therefore say dont supply the lamps.

Yours truly

392.

Nov. 6- 2

W. B. Wiston
1 Queen Row
St Johns Wood
London N. W.
England

Dear Sir

Enclosed please find letter erroneously addressed to you on Sept. 27. which has been returned to us from London

Yours truly

Saml Insull
Secy

Nov. 9- 2

Maj S. B. Eaton
President
65. 5 Ave. City

Dear Sir

Referring to the enclosed cablegram. Work is being continued on the "Klein" Dredge but not sufficiently advanced to set a price or time of completion.

Shall I call Mr. Bailey and have you the address?

Yours Truly
S. A. Edison
per

394.

Nov. 6 — 2

Wm. F. Macomber
Cranston R. I.
49 Weybosset St

Dear Sir

Returning to you favor of 4th inst. I can see you at my office at ten o clock on Wednesday as you request

Yours Truly
Thos A Doyle

Nov 8 — 2

Wm H Sharman
Main Street Pawtucket
Post Office
R. I.

Dear Sir

My Clerk informs that you were here on a subsequent visit to mine with reference to the Public Park Road and to the Tunnel under there.

If you think this suggestion a good one please communicate with Mr Chas. L. Hughes, Manlo Park who has charge of the Rail Road there who will show you the location of it and give you all the information you may desire concerning it.

Yours Truly

8th Nov 82

Geo H Bliss Esq
Edison Co for Isolated Lighting
51 & 53 Wabash Avenue
Chicago Ill.

Dear Sir

Referring to your favor of 5th inst the machine I am making is a 220 volt machine to run [illegible] Lamps in series having a total resistance of 750 ohms. You can take right hold of the terminals without the slightest danger

Yours truly

Thos A Edison

Nov 8- 2

Chas. M. Jaumbs Esq
6 West 11½ St
City

Dear Sir

Refering to your favor of 2nd inst Please call and see me when passing this way

Yours truly

Thos A Edison

399.

8th Nov 2

Messrs Austin & Bonnell
64 Nassau Street
City

Dear Sirs,
Please send us a
letter Book of 500 pp
same as last to the bank
Edison
No 8
T. A. E.

Yours truly
Samuel Insull

8th Nov 2

Edison Co for Isolated Lighting
51 & 53 Wabash Avenue
Chicago Ill

Dear Sir,
Yours favor of 1st
as to litigation came duly
to hand.

I ~~do not at all~~
agree with you as to the
advisability of immediately
bringing suit against Infringers
To do so would require me
to give my personal attention
to the matter & take me
off other far more important
work, besides involving us
in a great deal of expense
Leaving our opponents a
~~victory~~ which it is hardly
desirable they should gain
at our expense.

Directors of the Light Co. wanted to bring suit against the Maxim people. Rogers giving the above reasons. Today the Maxim people are worse off than they ever have been before. They have lost at least half a million dollars, their fine factory is now used for our work & every lamp they put out is an expense to them whereas every one we put out is a profit to us. As in other words we are doing a good paying business & they are doing none that is of practical commercial value.

You can show economy & give guarantees which they never never give & on this new business should be when they

affect our business then we shall have reason to sue them but so long as their work is conducive to their own ruin I see no reason for attacking them.

Yours sincerely

T A Edison.

They are far more active in New England but we plough right ahead, & have all we can do.

Edison.

8th Nov 2)

D Wallenstein Esq
174 William Street
City

Dear Sir,

I fear that the machine for which I expected to draw $10,000 today cannot be shipped till next week so I shall not draw the money till then. I shall want $10,000 Saturday on Paris a/c. & will let you know some time tomorrow how much on Italian a/c

I have cabled Paris to open another credit on Italian a/c

Yours truly

Nov. 8-

James Rowe Esq.
Saugerties
N.Y.

Dear Sir

Replying to your postal of 3rd inst. I do endorse the statement that was taken from the nozzle of a hose proves conclusively from conductor with which the water might contact.

Yours truly,

Thos A Edison.

Nov. 8 — 2

Messrs Harry Box
Buffalo
N.Y.

Gentlemen

Referring to your
postal of 4 inst
All information regarding
electric cars and their appliances
may be had by addressing the
Western Electric Co. Chicago Ill
Yours Truly
Saml Insull
Private Secretary

Nov. 8 — 2

D. H. Burnes Esq
% Burnes & Whitman
Little Falls N.Y.

Dear Sir

Referring to yours of
6th inst. Mr. Edison would
like to have a talk with you
when you are next in this
city
Yours Truly
Saml Insull
Private Secretary

8th Nov 2

Mr Chas L. Rosa
Edison Machine Works
104 Gaucet St
City

Dear Sir

I enclose you letter & ps from the Armington Sims Co. Mr Edison says that the first two engines must be paid for out of the first money we get. I have written Mr Sims that he shall have a check on Monday

Yours truly

Saml Insull

The best way would be to send a check for the first engine Saturday & for the second engine on the following Saturday.

8th Nov

The Armington Sims Co.
Providence
R.I.

Dear Sirs,

Referring to your letter of 6th inst we shall send you a check for one of the engines Saturday. & if possible for both of them. If we cannot do the latter we will send you a check for the second engine on Saturday next.

Yours truly

Saml Insull

Nov. 9- 2

E. D. Spier
c/o Van Nostrand
23 Murray Street
City

Dear Sir

Enclosed I hand you a list of books in which you will find some that Mr. Edison is in need of. Will you please make enquiries as to what you can get them at

Yours Truly

Saml Insull
Secy

Nov. 9-

John Taylor Esq
Bucknell House
City

Dear Sir

Referring to your favor of 6th inst which were delayed in consequence of being carried to Menlo Park. I beg to say that Mr. Edison goes to Boston tomorrow morning to return on Saturday morning, and will be glad to meet you at any time after his return

Yours Truly

Saml Insull
Secy

Nov. 10 2

Jos Baker Esq.
Morristown
Morris Co. N.J.

Dear Sir

Referring to yours of 7th inst. We beg to send you herewith a current curve from Sellon-Volckmar Accumulator which has unquestionably been charged with dynamic electricity, rather than with galvanic electricity or galvanism.

It would be impracticable, but it might be possible to propel a boat, as the speed you suggest with batteries carried on board, but that is a problem that would require a considerable amount of curious calculation to ensure positively and still more calculation to estimate the cost etc.

Yours Truly

Nov. 10- 2

C. L. Dean Esq
Edison Machine Works
City

Dear Sir

Mr. Edison requests that the herein enclosed Memo from Mr. Baehler be forwarded you for your perusal and consideration

Yours Truly

Samuel Insull

Please return enclosed

420.

Nov 14th 2

14th Nov 2.

J. Taylor Esq
Brevoort House
Fifth Avenue
City

Dear Sir

I was unable to see Mr Edison until late last night when he promised he would be home to see you at 10.30 this morning. will you kindly let me know by 'phone whether it will be convenient for you to call at that hour

Yours truly

Saul Sorsell
Private Sec'y

S. Bergmann and Co
Ave B and 17th Street
City

Dear Sirs

In your bill of Nov 10th for 300 C.B. Locket you have made a mistake of one dollar in deducting the percentage The bill should be 240. Dollars instead of 241. Dollars

Yours truly

Saul Sorsell

421.

14th Nov 2. Nov 15th 2

Dear Mr Lowrey)

I really think that Messrs Eubank Stevenson and Co
Lamp Co Contract should 143 Union Street
be settled at once. Edison Nashville. Tenn.
& Upton are both continually Dear Sir.
asking me about it. The Referring to your
matter has now been under favor of 9th inst I would say
discussion over a year That We received our Gas Machine
& we really ought to have from the Combination Gas Machine
it through. Co Detroit Michigan

I am afraid that Yours truly
Edison will think that Paul Synnott
it is impossible to get any Private Secretary
redress in this matter.
If only for the sake of the
large amount of money
invested in the Lamp Factory
(£200,000) this matter should
surely take precedence of
all others

Yours truly
Paul Synnott

Nov 2

Chas Bateson Esq
Low Lea Lane
Prance

My Dear Bates,

Francis Jeal recently sent an article to Van Nostrands but was refused to one for permission to publish by yours.

Please notify Francis that he must not write to public Journals the why & the wherefore of making our machines as we do. It is sufficient to give sizes & weight but not explain. If Francis I do not mind Francis asking me knowledge but it must not be at our expense.

Find out of his article that was published relating to the Automatic machine

Yours truly

Thos A Edison

430

15th Nov 2

Spencer Bouden Esq
New England Dept.
Edison Co for Isolat Ltg

Dear Sir

Mr Edison would be glad if you would send back those five defective armatures as quickly as possible as he is very anxious to make a thorough investigation of the matter.

Mr Edison is very anxious to get a spindle full of the very finest thread ever put on a spindle. If you can get it please send it to him by mail

Yours truly

Saml Insull
Secy.

Nov 14th 2

Spencer Borden Esq
New England Dept.
Edison Co for Isolated Lighting
Boston Mass.

Dear Sir

I have referred the writer of the enclosed to you

Yours truly

Saml Insull

15th Nov 2

S. B. Eaton Esq
President
Edison Electric Light Co

Dear Sir

By direction of Mr Edison I give you below the figures you ask for as to manufacturing in your memo of 8th inst.

Electric Tube Co.

Investment in Plant $23000
Completed Stock & material 16000 $39,000

Average monthly bills and pay rolls $24,000

Edison Machine Works

Investment in Plant $198,000
Finished Stock 150000
" Unfinished " 35000 $383000

Average monthly bills and pay rolls $100,000

Edison Lamp Company

Investment Real Estate Buildings & Fixtures	$54,660	
" Machinery & Tools	79412	
Finished & Unfinished Stock	25,000	
" Sunk in Experiments	9,334	
		214,411

Average monthly bills and pay rolls $15000.00

Bergmann & Co

Investment in Real Estate	$47,500	
Plant	55,000	
Finished & Unfinished Stock	53000	
		$155,500

In addition to the amount of cash invested by the Lamp Co in real estate their property cost a further sum of $30,000 for which amount they gave a mortgage. Bergmann & Co's property cost $40000 beyond their cash investment & they gave a mortgage for this amount Yours truly Saml Insull

16th Nov 2

Irving C. Comins Esq
Amherst College
Mass.

Dear Sir

Referring to yours of 12th ult I have ever done with was to issue a circular asking for platinum. At one time I thought I should require a great deal of it

Yours truly

Thos A Edison

16th Nov 2

Edw D Johnson Esq
Present.

Dear Sir,

Yours of 10th with enclosure which Customs came duly to hand. I do not know that Bradley frequently cuts the System. I fancy you must be in error.

Yours truly

Thos. A. Edison

437.

16th Nov 2

Messrs Coombs Crosby & Eddy
P. O. Box 3714
City

Dear Sir,

Referring to yours of 14th inst my Telephone Interests for Australia are controlled by the Oriental Telephone Co & Great Winchester St London E.C. England to whom I beg to refer you for the information you require

Yours truly

Thos. A. Edison

Nov. 16 – 2

C. L. Hughes Esq
Menlo Park N.J.

Dear Sir

In reply to yours of yesterdays date Mr. Edison says he will try to go to Menlo on Sunday next.

Yours Truly

Saml Insull
Secy

17th Nov 2

Geo. H. Bliss Esq
Gen'l Supt
Western Edison Light Co
57 & 58 Wabash Avenue
Chicago Ill

Dear Sir,

I duly received your favor of 10th inst which I would have answered before but on the fact that I have not been well enough lately to attend to much business.

Mr Goddard I understand quoted you the prices of "C" Dynamos with and without engines, and I promised him that I would write you as to the advisability of your only buying these machines with Engines attached.

The cost of the rigging necessary for these Dynamos in order to run them with a slow moving engine would be almost as much as the high speed engine itself. In addition to these the loss of power when running the Dynamo with belting at its full capacity, would probably be as high as 40 horse power so you will see that if you purpose ordering any "C" Dynamos it would

be far better to use slow high speed engines as well.

Furthermore if you test these Dynamos to a Corliss Engine the light will in all probability be subject to frequent dips unless there is a very considerable margin of power in the Engines.

Yours truly

Paul Jacobi

Paul Jacobi
Pleasure to receive yours and Mr Edison receive no to inform you that you may number to be very much pleased for money but not be under exclusive to let you have come and on December.

Yours truly

Paul Jacobi

17th Nov 2

Professor G. Colombo
Milan
Italy

Dear Sir,

Your letter of 10th October would have been answered before this but for the fact that Mr Clarke has been away recuperating his health after the extreme exertion consequent on the experiment at the Central Station.

Mr Clarke says that Mr Paton has kept you fully posted as to the work at the Central Station. Everything there is now running perfectly and we know machines in and out without any trouble whatever.

The supplies for your work at Milan were pushed forward as rapidly as possible. There was great delay on the first shipments but this was owing to the bad steamer service to the Mediterranean. Almost all your tubes have now been shipped. The work at Bergmann & Cos is almost finished. The regulation of the Fiala apparatus will go tomorrow.

I enclose you herewith memorandum with curves & calculations from Mr

Clarke which will supply you with the information you ask for.

I also enclose you the contract for the Boilers. If you have not received them yet please communicate with Babcock & Wilcox 107 Hope Street Glasgow Scotland.

I think we will let the Dynamo matter stand just as it is. The Societe Electrique Edison have already taken two more large Dynamos from me. The two machines have attached to them the Armington & Sims Engines which are vastly superior in every way to the Porter-Allen Engines. The former do not require any coupling arrangements to be attached to the Regulator & govern always perfect under the most varying conditions. The economy of running them will be considerably greater than that of Porter Allen — In fact the Armington Engine is the one thing requisite to make our Central Station complete.

We have not had one single stoppage at our Central Station since we started Sept 4th. We have now 142 consumers connected with 3200 lights and we are putting in about 100 lights

per day).

Mr. Reis leaves here for Milan on the Alaska on Tuesday next 20th inst. The terms I have arranged with him are as follows:- He is to receive his travelling expenses to & from Milan and while there the amount of his living expenses (not to exceed $15.00 per week) and a salary at the rate of $1500.00 per year. If after you have got through with him and he is required anywhere else some fresh arrangement as to remuneration must be made with. It is of course understood that I only lend Mr. Reis & if he should be required for other services after he has got through at Milan my permission must be obtained.

Yours truly

Thos A Edison

Nov. 20- 2

Thomas Maguire Esq.
"Herald"
Boston Mass.

Dear Sir

Referring to your letter of Saturday morning. Mr. Edison was obliged to leave Boston for New York that morning and was very sorry to have missed you

Yours Truly

Saml Insull
Private Secretary

Nov. 20- 2

Charles Batchelor Esq.
Ivry-sur-Seine
France

Dear Sir

Referring to your letter of Oct 27th relating to "Thermo Chimique Electro Generator" of Dr Brard. Mr Edison suggests that you see what you can get hold of it for.

Yours Truly

Saml Insull
Private Secretary

Nov. 20- 2

Messrs Mather & Platt
Salford Iron Works
Manchester Eng

Gentlemen

I beg to acknowledge the receipt of your letter of the 2nd inst and shall be most happy to receive your order

Yours Truly

Thos A Edison

Nov. 20- 2

A. Weller Esq
Mgr W. U. Tel Co.
Milwaukee
Wis.

Dear Sir

Mr. Edison wishes me to acknowledge the receipt of your telegram of the 18th inst. and to offer his best thanks for the information which greatly interested him

Yours Truly

Saml Insull
Private Secretary

450.

Nov. 20- 2

Wm W. Acheson
Kaufra
Armstrong Co
Pa

Dear Sir

Refering to your letter of 18th inst.

Our latest advices from Italy indicate that your brother Edward is still at Milan in good health and employed by the "Comitato per le Applicazioni delle Electricita "Sistema Edison" of which Prof. G. Colombo is the principal man.

Yours Truly

Saml Insull
"
Private Secretary

Nov. 20- 2

W. H Johnston Esq
Asst A. S. & W. Co.
123 South 11th St
Philada Pa.

Dear Sir

Mr. Edison requests me to acknowledge, with his best thanks, the receipt of your kind invitation to be present at the Banquet of your Company at the Hotel Bellevue on the 21st inst, and to express his regret that press of business here will prevent his acceptance.

Yours very Truly

Saml Insull
Private Secretary

2nd Nov 2

Jno. P. Bailey Esq
Paris.

My Dear Sir,

Can you with the influence you & your friends have in Italy get the Italian Legislature, as a measure of relief to me, to pass an act which will cause my Patents granted four six years, to be extended to the full term of 15 years. What I want done, if possible, is that my present Italian patents should be thus extended. I do not want a measure as that would cover my American patents I want those I now hold to be treated as if they were issued for the full term & thus save my American patents The same remarks apply to Austria

Please let me have your views on the subject

Yours truly

Thos A Edison

21st Nov 21

Paul Electrique Edison
33 Avenue de l'Opera
Paris France

Dear Sir,

Referring to your favor of 19th inst I had two men working on accumulators for three months and I have given a great deal of time to the matter and the conclusion I came to was that accumulators are (in the present state of the art) of no value commercially. If I should at any time strike anything in this direction I will notify you. My inclination however is to discourage the use of accumulators as I think they will rather damage us than do us good.

With reference to Automatic Regulators I have spent a great deal of my time for months past in experimenting with a view to getting a good regulator and I have at last got what I consider a really reliable Automatic Regulator one which I think will repay you for the waiting. I have now ordered those you requested me to sometime back

as there will be the first made (except of course the model) there will be some delay in turning them out but I will see that the work is pushed forwards as fast as possible

Yours truly

Thos A Edison

466.

22nd Nov 2

Bank of Metropolis
17 Union Square
City

Sent in
Please stop payment
of my check No 848 drawn
to the order of Mrs N. P.
Chipman under date Nov 15th
for $71.40.

Yours truly
Thos A Edison
By Saml Insull
Atty

Nov 22d 2

Chas T. Hughes Esq
Menlo Park
N J.

Dear Sir

Please charter a
car from P R R Co and send
the Library in it to Newyork
the two small boxes in the
small apartment in the front of the office belong with
the Library. after the car has been
locked have a seal put on.

Yours truly
Saml Insull

467.

22nd Nov 2

Mr. S. Van Cleve
Menlo Park
N. J.

Dear Sir,

After tonight there will be no night watchman at Menlo Park and Mr. Edison desires you to take charge of the place at night, & see that everything is locked up. He also wishes you to go round every night about eleven o'clock to see that everything is all right.

After this week your wages will be $17.00 per week.

Yours truly

Saml. Insull

22nd Nov 2.

Thos. Logan Esq
Menlo Park
N. J.

Dear Sir,

Please let Martin Force have a load of kindling wood from the Lamp Factory & let P. F. Calman have some posts left from the Fence at the Lamp Factory. After that please have all the kindling wood at the Lamp Factory brought up to the Laboratory Yard.

Please discharge the night watchman as Mr. Edison does not think it necessary to keep him on after tomorrow (Thursday) night. Van Cleve will attend to locking up the Laboratory. I have written him on the subject.

Yours truly
Saml. Insull Sec.

472.

29th Nov 2

Edward Barton Esq
Chester
Pa.

Dear Sir,

Referring to your favor of 28th inst on the subject of Gold Extraction I beg to state that I was obliged to drop my experiments on this in order to give closer attention to the Electric Light. I hope however to be able to take up the question of Gold Extraction at some future date.

Yours truly
Thos A Edison

Nov. 23 2

Bank of the Metropolis
Union Square
City

Gentlemen

I beg to withdraw my letter of yesterdays date stopping payment on check No. 8263 of November 15th to the order of Mrs. N. C. Crissman for $71.40 and request that it be paid on presentation.

Yours Truly
Thos A Edison
By Samuel Insull
Atty

476.

Nov. 27- 2

Albert Angell Esq.
East Orange
N.J.

Dear Sir

I beg to acknowledge with thanks your favor of 25th inst and enclosure. but have to inform you that the sample of wood fibre is of no value whatever for the purpose of my electric lamp

Yours Truly
T. A Edison
M.

Nov. 27- 2

Geo. H. Hill Esq
Chicago Ill
28 Lasalle Bldgs

Dear Sir

Referring to your favor of 18th inst.

You could have the use of the Chronograph for the purpose you suggest and it could be made so as to be audible all over any ordinary theatre; but you would require an expert to work it.

Thanks for the copy of "The Chronograph Witness."

Yours Truly
T. A Edison
M.

Nov 28th 1882

R. Summers Esq
P.O. Box 1442
New York City
Dear Sir

Mr Edison directs me to say in reply to yours of 25th inst. that he much regrets his inability to take advantage of your proffered services there being at present no vacancy in connection with any of our enterprises

Yours truly.

Frank Sewell
Private Secretary

Nov 28th 2

W. E. Barrows Esq
President
Willimantic Linen Co
Willimantic Conn
Dear Sir

Yours of 26th and cop of No 40 00 yarn came to hand this morning for which accept my very best thanks. The delicacy of the yarn astonished and pleased me greatly. I require it for use in some experiments and should I have cause to again encroach upon your kindness I shall avail myself of your offer

Yours truly.

Thos A. Edison

481

Nov. 29- 1

Geo. A. Bliss Esq
Gen. Supt.
Western Edison Light Co.
51-53 Wabash Ave
Chicago

Dear Sir

Refering to your letter of 21st inst to the Edison Machine Works

The "E" dynamos were but experimental machines and as unsatisfactory to myself as to the users of them, but the large dynamos for that size machine manufactured remain them out. We shall guaranty improved them and all sent out hereafter we hope will give perfect satisfaction

Yours Truly.

Thos A Edison

Nov. 29- 1

A. L. Hilly Esq
336 East 79½ St
City

Dear Sir

Refering to yours of late date.

Mr. Edison, during the day, is usually at his Laboratory. Is in the City. If you will set a day that you can call upon me at the above address at, say, three o'clock, I will accompany yourself and Mr. Wilde to his Laboratory and work to see Mr Edison Yours Truly

Saml Insull
Private Secretary

Nov 29- 2

Wm McCrea Esq
Genl Minneapolis Lyndale & Minnetonka R.W. Co.
Minneapolis
Minn.

Dear Sir

Your favor of 21st inst with cutting from the "Minneapolis Tribune" came duly to hand.

Mr. Edison made it a rule not to answer adverse comments and misstatements of facts, but has suggested that I should write you pointing out the error into which Dr Perrie has fallen

1st Dr Perrie says the Edison System of Electric Rail Road Lacks economy but fails to give his authority for such an assertion. As a matter of fact tests are being daily made under all possible conditions to prove the exact economy of the Edison system our steam locomotive and the results so far have been most favorable.

2nd Dr Perrie says that a third rail is necessary. This is not so. At Menlo Park we have a track two and a half miles in length and there are only two rails which are used as the conductors.

3rd Dr Perrie says that if a horse or man gets his foot upon the rails the shock is instant death. Our experimental tracks

at Menlo Park across a country road very much used and during last Summer I frequently drove a very restive horse over the tracks whilst the Rail Road was being operated without the slightest inconvenience. Our men are frequently working on the tracks whilst the rails are charged with the electric current and of necessity have to touch the rails, but inasmuch as our current is of comparatively low pressure it is impossible for any such accidents as Dr Perris depicts, to occur.

With Dr Perris says that "when you produce electricity by steam and then use the "current to drive machinery you lose a great deal of power". But he omits to state that with a locomotive steam engine the power obtained is far more expensive than with a Stationary Steam Engine and in as much as Mr. Edison use the latter he has a large margin to work on to make up for the loss occasioned by the conversion of power into electricity and back into power again.

Mr. Edisons motor is not "lying on an old heap of scrap iron-discarded" but is being used daily for experimental purposes.

Dr Perris remarks show his total ignorance of Mr. Edisons Electric Rail Road and I would suggest that he should enquire

into what Mr. Edison has done before making
assertions such as those referred to.

You may make what use of this
letter you please

Yours Truly

Samuel Insull
Private Secretary

29th Nov 2

Messrs Waterhouse & Winterbotham
1 New Court
Carey Street, Lincolns Inn
London W.C. England

Dear Sirs,

Edisons Indian & Colonial Coy

Your letter of 21st October addressed to Mr Johnson has been opened to me by him. I will look into the matter of the Indian Patents & send them to you as early as possible.

With relation to your letter of 10th inst addressed to Mr Edison he is willing to supply the above Co with copies of the American specifications if they so desire on their undertaking to pay for such copies. But if they wish this done it will involve them in a great deal of needless expense as Mr Edison takes out many patents in this Country which he does not think of sufficient importance to take out elsewhere. As Mr Edison would furnish them at their expense with copies of his Foreign cases that is which would cover ones of his inventions as he thinks it desirable to patent in England and on the

Continent of Europe. Or as a third course Mr Edison would instruct Mr Hanford to supply the Co with copies (at their expence) of all English Patents as taken out. This would be practically the same as the second course suggested

As to notifying the Colonial Co when every new patent is taken out we would prefer not to have to do this if it can be avoided as it would involve a great deal of clerical work for which Mr Edison could not get remunerated. And furthermore we fail to see what advantage the Colonial Co can derive from any such notification. Besides in many cases it would be next to impossible for us to supply the information as after Foreign applications for Patents leave our Patent Department Mr Edisons Foreign Assignees as a rule have charge of taking out the Patents.

Yours truly

Sam'l Insull

Private Secretary

489.

29th Nov 2

Messrs Fabbri & Chauncey
48 South Street
City

Dear Sirs

We have received from our London Solicitors a letter requesting us to send them all Patents to be assigned to Edisons Indian & Colonial Light Co.

You have I believe some of the Indian Patents. If so please send them to us at your convenience in order that we may transmit them to London

Yours truly

Saml Insull
Private Secretary

2nd Dec
Chas P. Hughes
Menlo Park
~~Madison~~ N. J.

Have mailed you checks ~~today~~
Insull
$25 pd

490.

1st Dec 2

Chas P. Hughes
Mento Park
N. J.

Alfred M. Mayer Esq
Century Club
109 East 15th Street

Dear Sir
I enclose you herewith checks as follows:—

John Agnew $7500
Joel Compton 1250
Howard Agnew 150
Ellis Roe 125

which please deliver to the parties named & get their signatures to enclosed receipts which kindly

I also enclose your memorandum undertaking to be responsible for damage done to cattle of above named gentlemen

Yours truly
Chas P. Hughes

Dear Sir
I shall be at my Graduation 292-8 Avenue B. Corner 17th Street (Baumann & Co's Shops) till about 5 o'clock this evening and shall be glad to see you there, 2.30 P.M. the time you name

Yours truly
Thos A. Edison

Dec 10th 82

Prof. Rowland
John Hopkins University
Baltimore Md.

My dear Sir:

I find that in order to legally establish and maintain your right as the discoverer of the Siemens-pattern of dynamo electric machine, it may be necessary to bring the matter forward within a short time. The application papers, contracts &c. do not seem to be in my possession. If you have them, will you kindly forward them to me with such objections as you have to make.

Siemens is prosecuting his case in the Patent Office vigorously, and may obtain a patent with broad claims if not stopped by an interference with an application filed in your name.

Hoping to hear from you at an early date

I remain
Yours very truly
Thomas A Edison

Dec 1st 2

Jose Navarro Esq
Edison Spanish Colonial Light Co.
P.O. Box 2596
New York City

Dear Sir

Referring to yours of 28th Nov it is possible to run arc lights, on our circuits by putting two lights in series together, but I should not recommend the use of Arc Lights as 13 Incandescent Lights bunched together is equal to an arc Light and gives far less trouble. We have several of these groups working and they give great satisfaction.

Yours truly.

Thos A Edison

Dec 1st 2

S. S. Metcalf Esq
Office Editor
North American Review
New York City

My Dear Sir

Referring to yours of 27th the tests I wrote you about are now being made. It will require about 25 or 30 days to complete them so I think the article on the Railroad had better wait over till the next number of the Review

Yours truly,

Thos. A. Edison

493.

Dec 1st 2

L. E. Jones Esq
P.O. Box 943
New York City
Dear Sir

Referring to yours of 27th inst addressed to Mr Edison. I will send you the particulars you ask for in a few days.

Yours truly

Saml Insull
Private Secretary.

Dec 1st 2

Chas E. Rocap Esq
Edison Machine Works
104 Goerck Street
New York City.
Dear Sir.

Enclosed please find memorandum from Maj Eaton re shipments to South America. I fancy this is the same subject upon which I had some conversation with you some time back.

The matter ought to be carefully looked into as the non compliance with Fabbri and Chauncey requests causes a great deal of trouble

Please return Mem. with any remarks you may have to make.

Also enclose you extract from letter from London Co. What shall we do about this?

Yours truly.

Saml Insull

4th Dec

D. Wallenstein Esq
174 William St
City

Dear Sir
Enclosed you will find documents for $2009.50 for account of Lowell Electric Edison
Please send me check to order of P. A. Edison & oblige
Yours truly
Saml Insull

14th Dec

J. C. Penn
Western Union Tel Co
195 Broadway
City

will be at Sixty five Fifth avenue at one thirty
P. A. Edison
Collect

Rec'd S. Arizona

4th Dec 2

Rt. Hon. C. P. Bouverie
Chairman
Edison Electric Light Co (Limited)
London

Dear Sir,

I have had several conversations with Mr White on the matters in dispute between us and I have much pleasure in stating that I do not entertain any ill-feeling whatever in relation thereto.

In view of the position in which you are at present placed I shall be glad to do all I can to relieve your Company as regards machinery

Yours truly

Thomas A Edison

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END

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Thomas A Edison Papers

A SELECTIVE MICROFILM EDITION

PART II
(1879–1886)

Thomas E. Jeffrey
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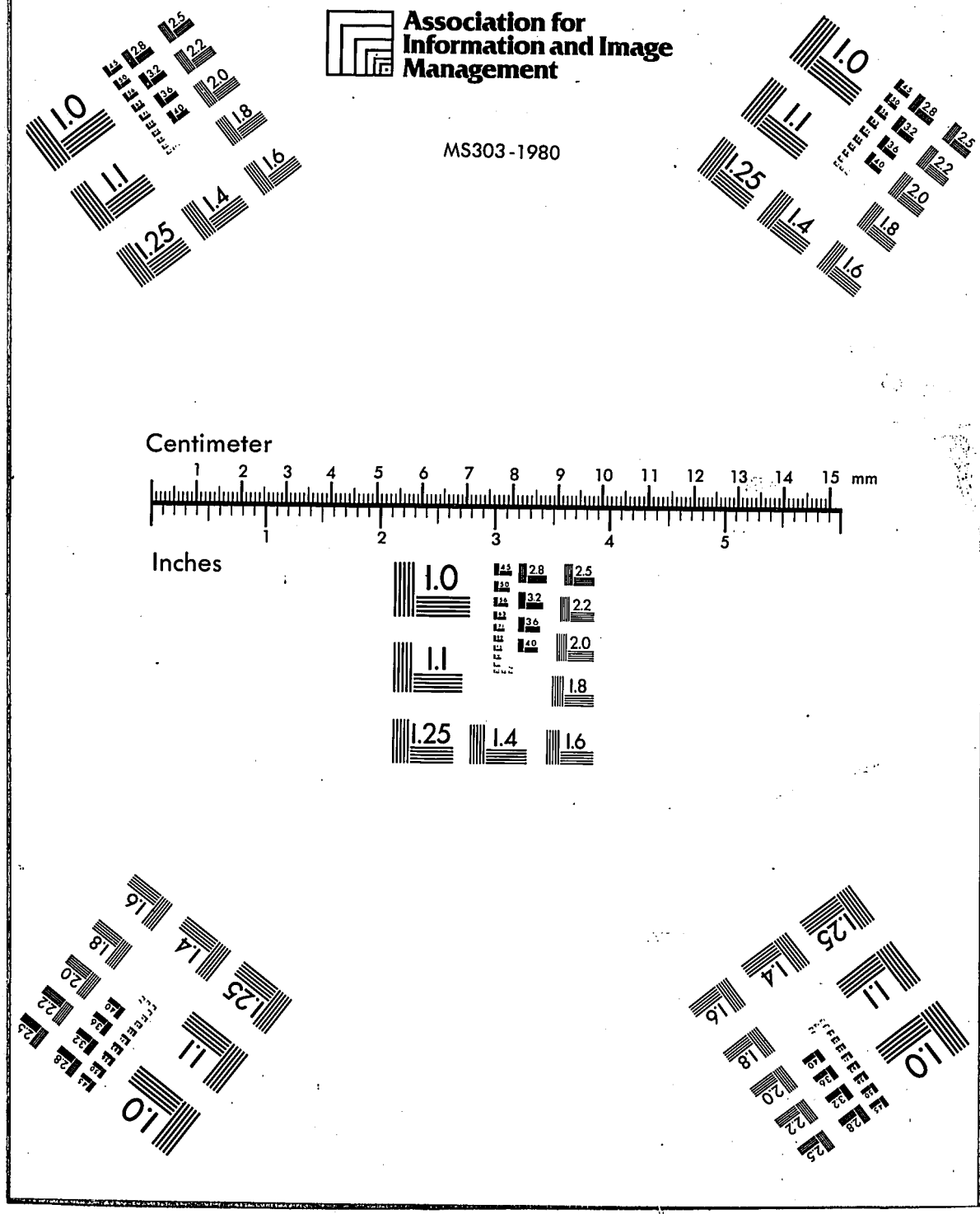
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